KING

POPEYE and ENVIRONMENTAL CAREERS

APPROVED BY THE COMICS CODE AUTHORITY

TOO MANY PEOPLE ARE MESSING UP THE WORLD WE LIVE IN AND SOME OF US ARE GOING TO HAVE TO WORK MIGHTY HARD TO CLEAN IT UP! THAT'S WHAT THIS COMIC IS ALL ABOUT... IT'S CALLED ENVIRONMENTAL CONTROL!
DON'T BE A LITTER-BUG!
KEEP AMERICA CLEAN
WRITER: JOE GILL / ARTIST: GEORGE WILDMAN

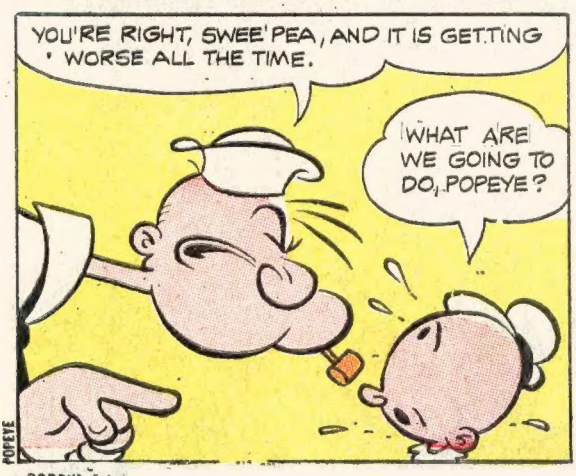
COUGH!

I'M CRYING BECAUSE EVERYTHING IS POLLUTED AND DIRTY. BY THE TIME I GROW UP, THE WORLD WON'T BE A NICE PLACE TO LIVE IN, POPEYE!

WHY ARE YOU CRYING, LITTLE SWEE'PEA?

DUMP

GASP!



POPEYE E-2
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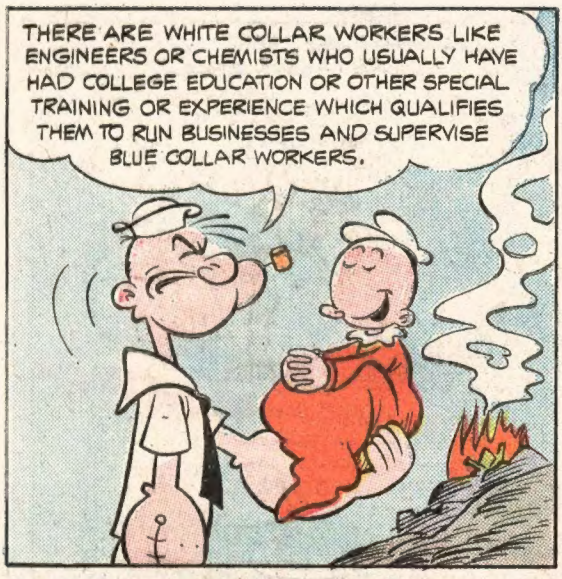
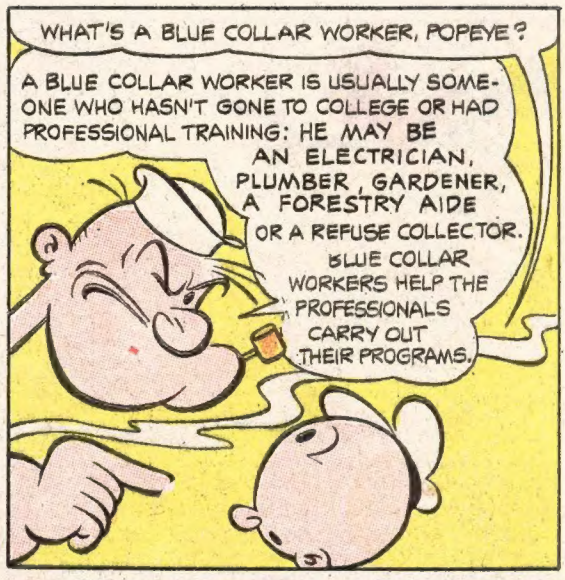
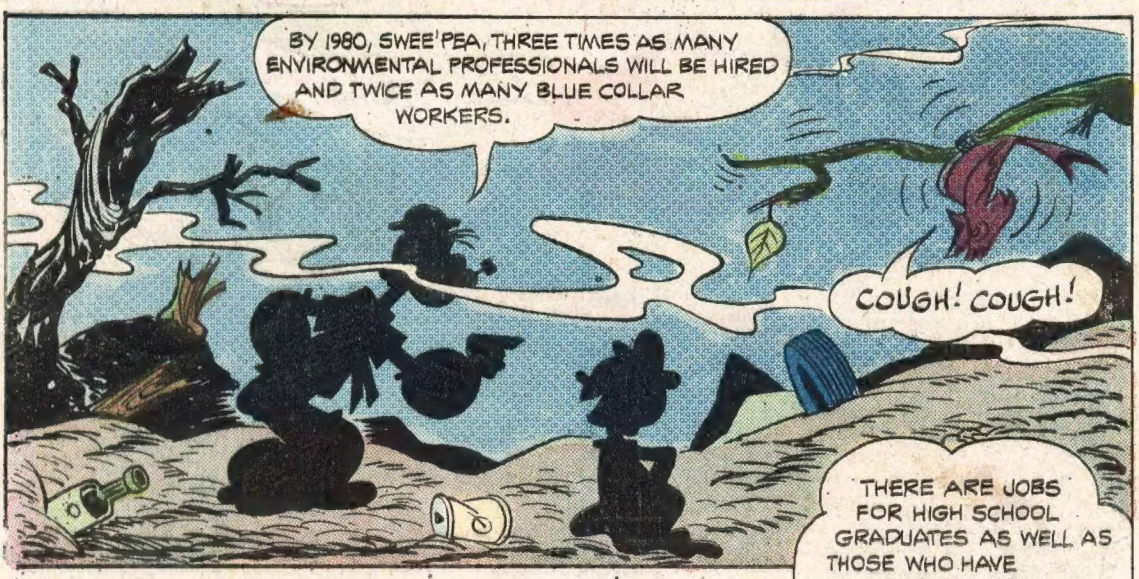
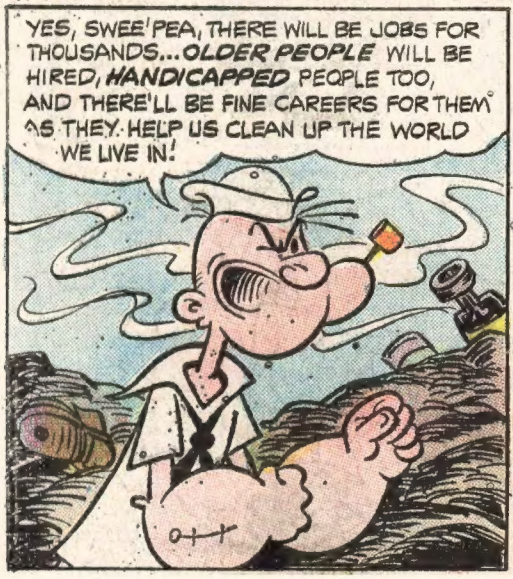
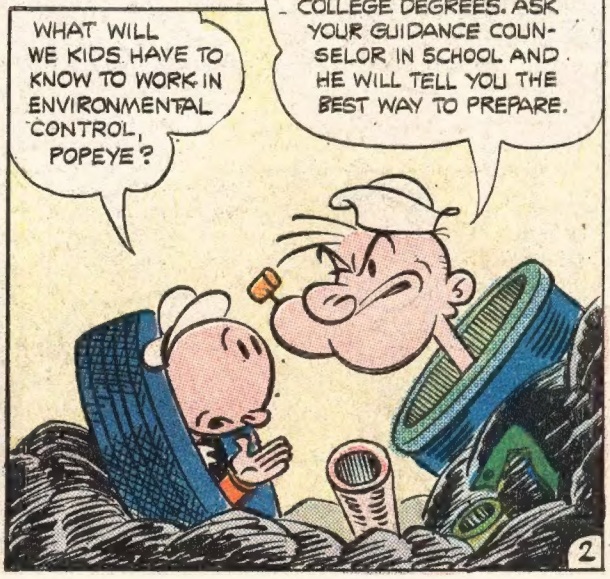
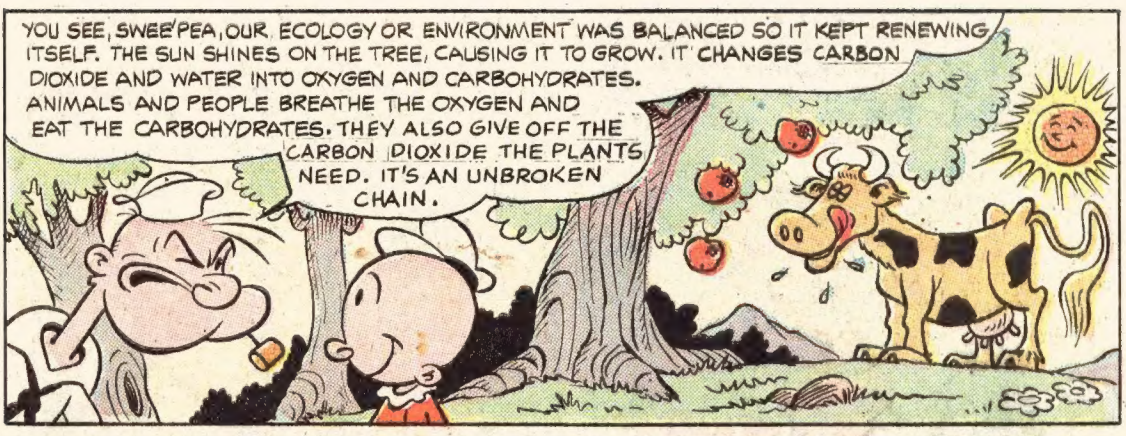

THERE ARE WHITE COLLAR WORKERS LIKE ENGINEERS OR CHEMISTS WHO USUALLY HAVE HAD COLLEGE EDUCATION OR OTHER SPECIAL TRAINING OR EXPERIENCE WHICH QUALIFIES THEM TO RUN BUSINESSES AND SUPERVISE BLUE COLLAR WORKERS.

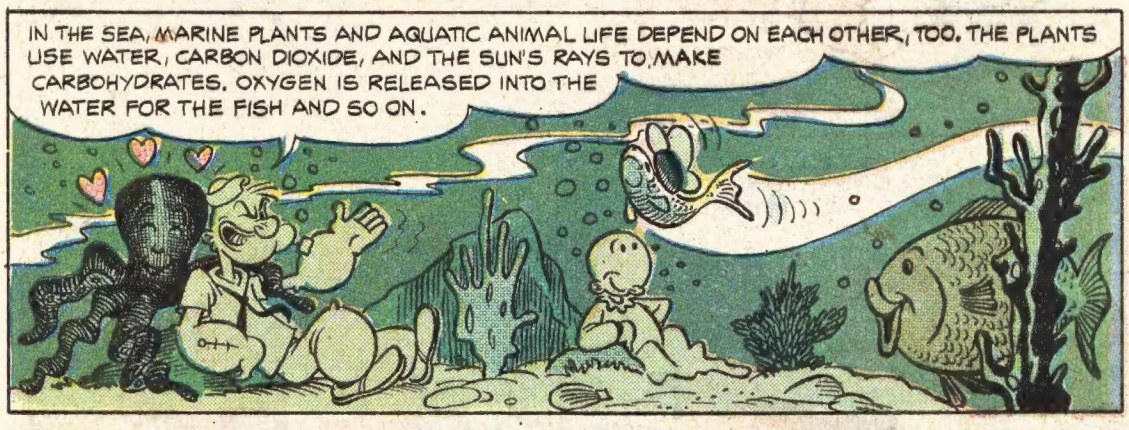

WHAT'S A BLUE COLLAR WORKER, POPEYE?
A BLUE COLLAR WORKER IS USUALLY SOMEONE WHO HASN'T GONE TO COLLEGE OR HAD PROFESSIONAL TRAINING: HE MAY BE AN ELECTRICIAN, PLUMBER, GARDENER, A FORESTRY AIDE OR A REFUSE COLLECTOR. BLUE COLLAR WORKERS HELP THE PROFESSIONALS CARRY OUT THEIR PROGRAMS.

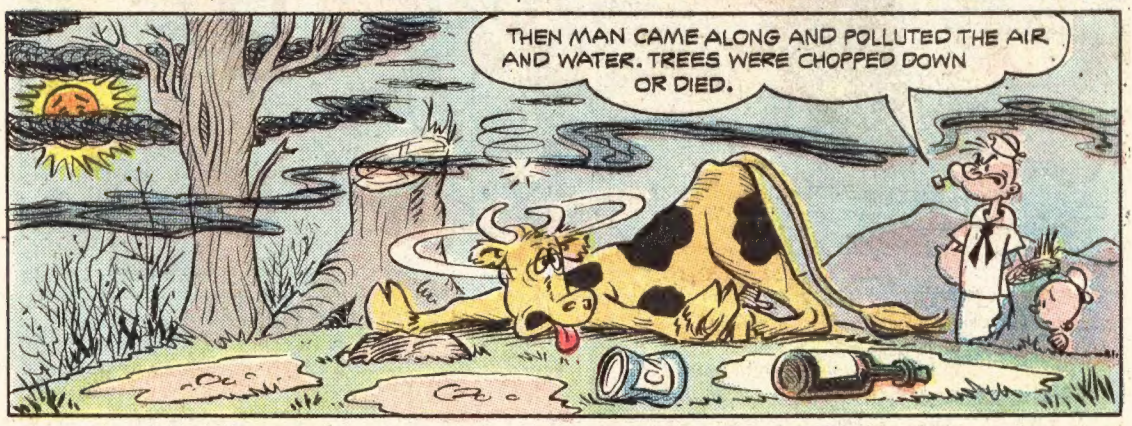

BY 1980, SWEE'PEA, THREE TIMES AS MANY ENVIRONMENTAL PROFESSIONALS WILL BE HIRED AND TWICE AS MANY BLUE COLLAR WORKERS.
COUGH! COUGH!

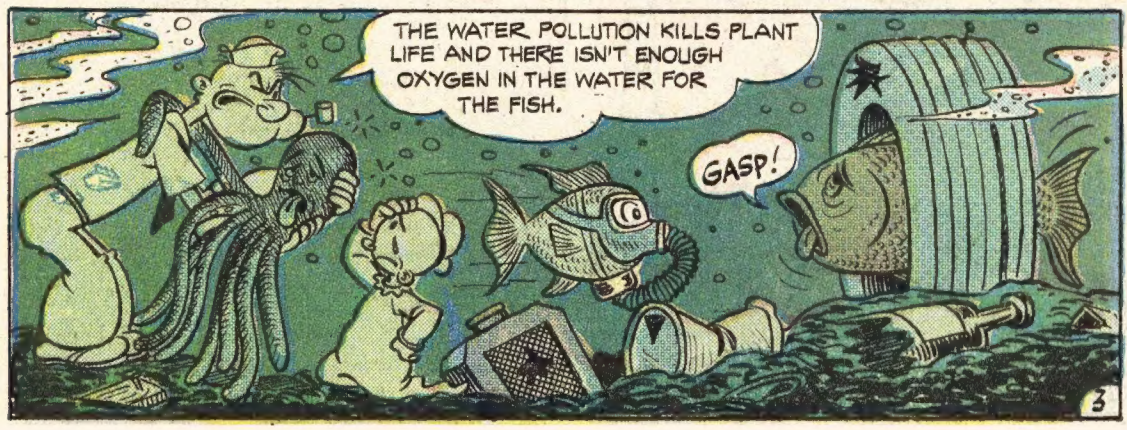

YES, SWEE'PEA, THERE WILL BE JOBS FOR THOUSANDS... OLDER PEOPLE WILL BE HIRED, HANDICAPPED PEOPLE TOO, AND THERE'LL BE FINE CAREERS FOR THEM AS THEY HELP US CLEAN UP THE WORLD WE LIVE IN!

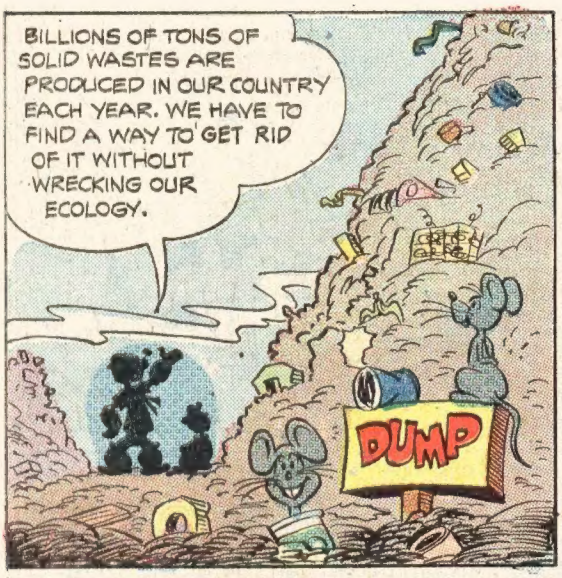

WHAT WILL WE KIDS HAVE TO KNOW TO WORK IN ENVIRONMENTAL CONTROL, POPEYE?
THERE ARE JOBS FOR HIGH SCHOOL GRADUATES AS WELL AS THOSE WHO HAVE COLLEGE DEGREES. ASK YOUR GUIDANCE COUNSELOR IN SCHOOL AND HE WILL TELL YOU THE BEST WAY TO PREPARE.

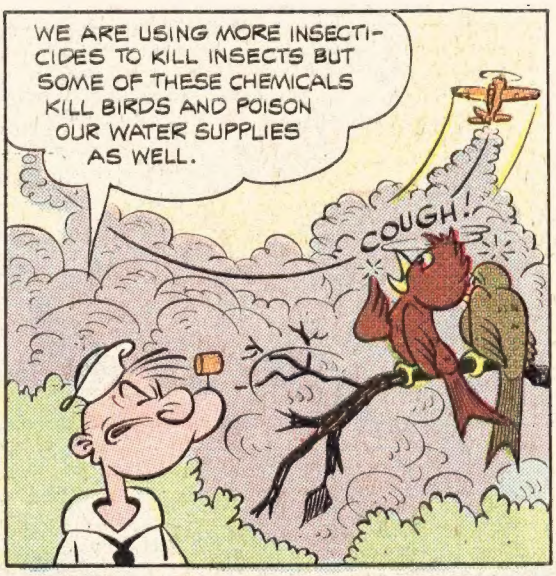

YOU SEE, SWEE'PEA, OUR ECOLOGY OR ENVIRONMENT WAS BALANCED SO IT KEPT RENEWING ITSELF. THE SUN SHINES ON THE TREE, CAUSING IT TO GROW. IT CHANGES CARBON DIOXIDE AND WATER INTO OXYGEN AND CARBOHYDRATES. ANIMALS AND PEOPLE BREATHE THE OXYGEN AND EAT THE CARBOHYDRATES. THEY ALSO GIVE OFF THE CARBON DIOXIDE THE PLANTS NEED. IT'S AN UNBROKEN CHAIN.

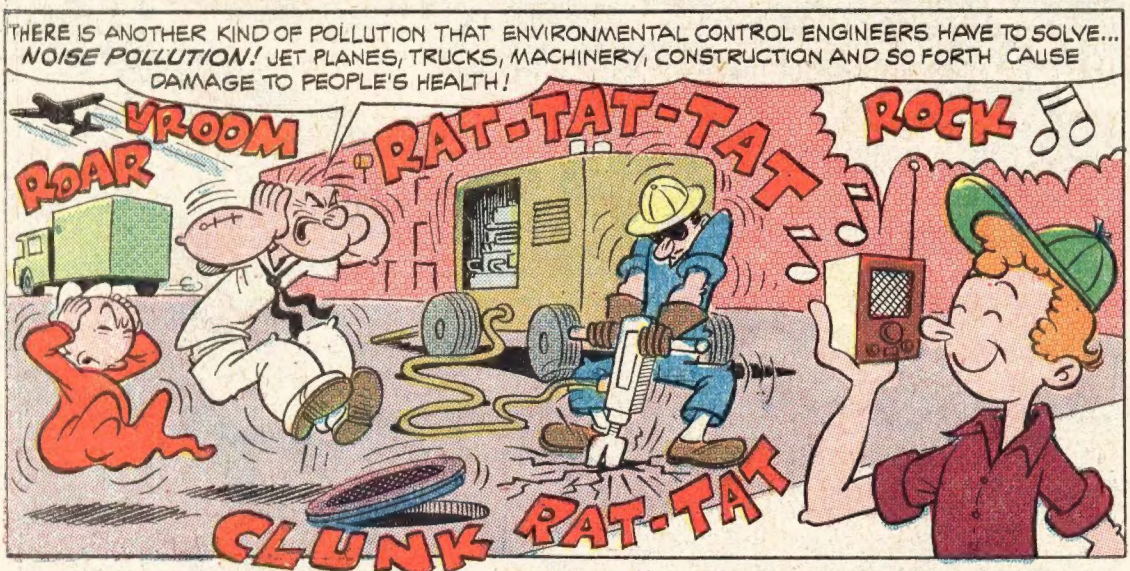

IN THE SEA, MARINE PLANTS AND AQUATIC ANIMAL LIFE DEPEND ON EACH OTHER, TOO. THE PLANTS USE WATER, CARBON DIOXIDE, AND THE SUN'S RAYS TO MAKE CARBOHYDRATES. OXYGEN IS RELEASED INTO THE WATER FOR THE FISH AND SO ON.

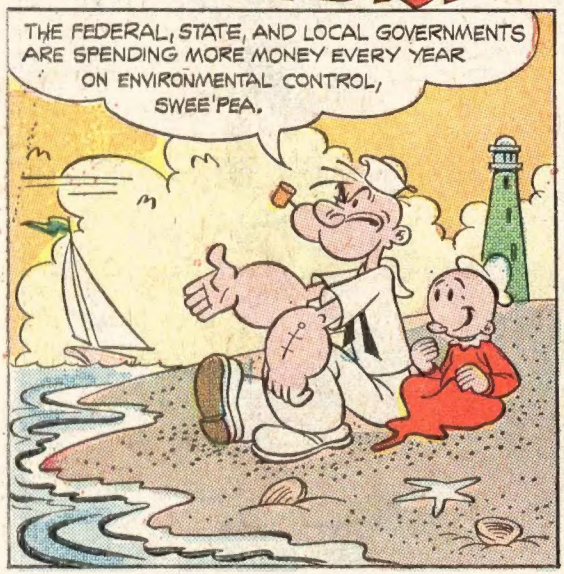

THEN MAN CAME ALONG AND POLLUTED THE AIR AND WATER. TREES WERE CHOPPED DOWN OR DIED.

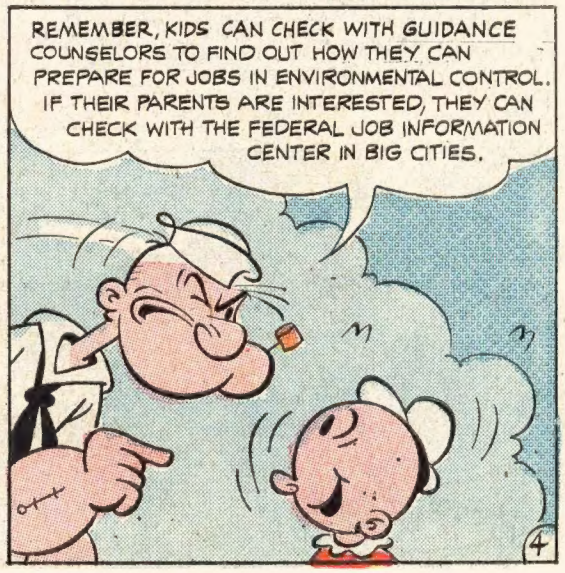

THE WATER POLLUTION KILLS PLANT LIFE AND THERE ISN'T ENOUGH OXYGEN IN THE WATER FOR THE FISH.
GASP!

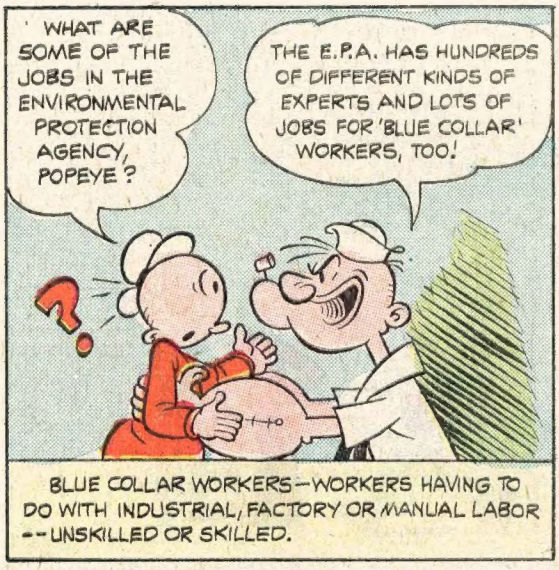

BILLIONS OF TONS OF SOLID WASTES ARE PRODUCED IN OUR COUNTRY EACH YEAR. WE HAVE TO FIND A WAY TO GET RID OF IT WITHOUT WRECKING OUR ECOLOGY.
DUMP

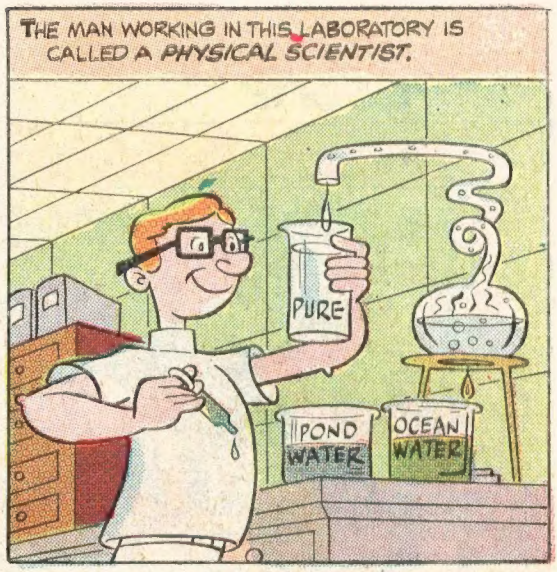

WE ARE USING MORE INSECTICIDES TO KILL INSECTS BUT SOME OF THESE CHEMICALS KILL BIRDS AND POISON OUR WATER SUPPLIES AS WELL.
COUGH!

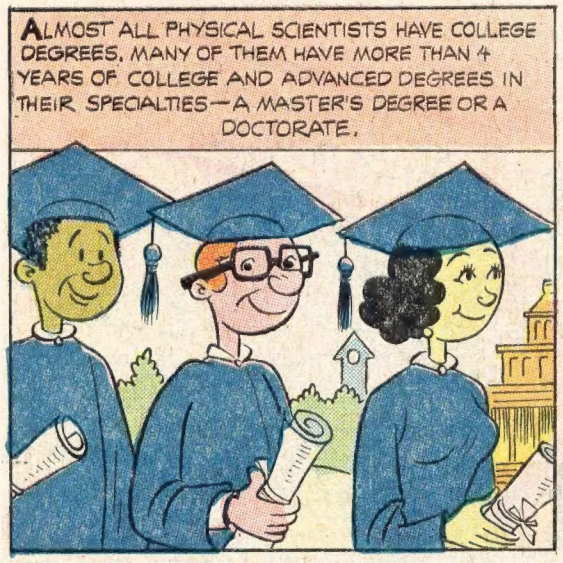

THERE IS ANOTHER KIND OF POLLUTION THAT ENVIRONMENTAL CONTROL ENGINEERS HAVE TO SOLVE... *NOISE POLLUTION!* JET PLANES, TRUCKS, MACHINERY, CONSTRUCTION AND SO FORTH CAUSE DAMAGE TO PEOPLE'S HEALTH!
ROAR
VROOM
RAT-TAT-TAT
ROCK
CLUNK
RAT-TAT

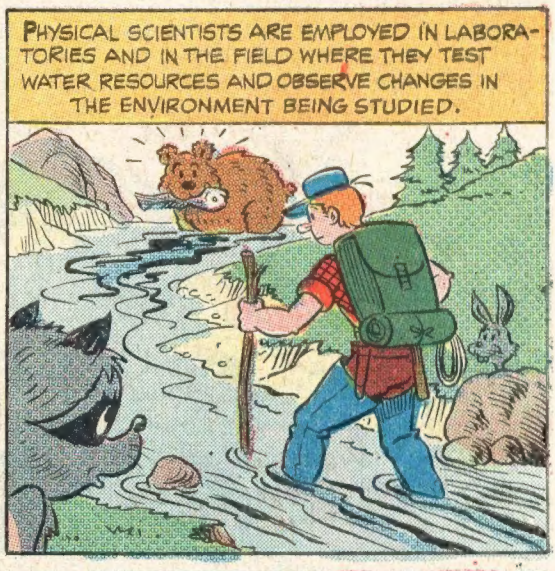

THE FEDERAL, STATE, AND LOCAL GOVERNMENTS ARE SPENDING MORE MONEY EVERY YEAR ON ENVIRONMENTAL CONTROL, SWEE'PEA.

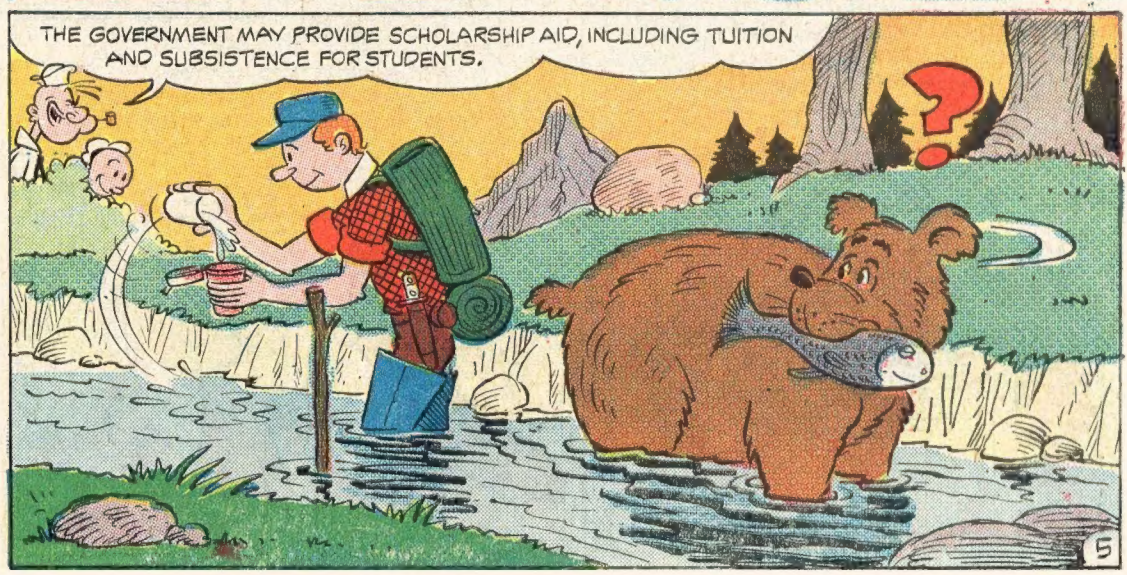

REMEMBER, KIDS CAN CHECK WITH GUIDANCE COUNSELORS TO FIND OUT HOW THEY CAN PREPARE FOR JOBS IN ENVIRONMENTAL CONTROL. IF THEIR PARENTS ARE INTERESTED, THEY CAN CHECK WITH THE FEDERAL JOB INFORMATION CENTER IN BIG CITIES.


WHAT ARE SOME OF THE JOBS IN THE ENVIRONMENTAL PROTECTION AGENCY, POPEYE?
THE E.P.A. HAS HUNDREDS OF DIFFERENT KINDS OF EXPERTS AND LOTS OF JOBS FOR 'BLUE COLLAR' WORKERS, TOO!
BLUE COLLAR WORKERS—WORKERS HAVING TO DO WITH INDUSTRIAL, FACTORY OR MANUAL LABOR --UNSKILLED OR SKILLED.

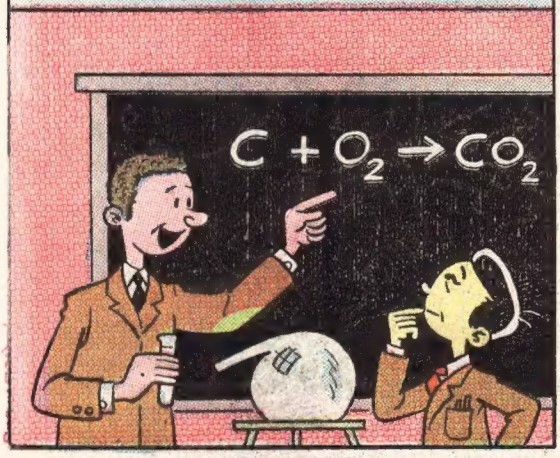

THE MAN WORKING IN THIS LABORATORY IS CALLED A *PHYSICAL SCIENTIST.*
PURE
POND WATER
OCEAN WATER


ALMOST ALL PHYSICAL SCIENTISTS HAVE COLLEGE DEGREES. MANY OF THEM HAVE MORE THAN 4 YEARS OF COLLEGE AND ADVANCED DEGREES IN THEIR SPECIALTIES—A MASTER'S DEGREE OR A DOCTORATE.

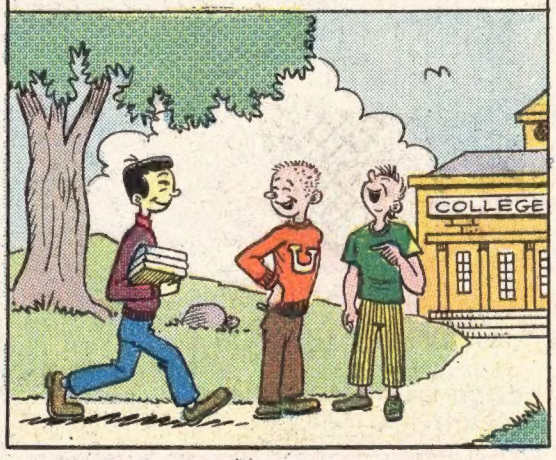

PHYSICAL SCIENTISTS ARE EMPLOYED IN LABORATORIES AND IN THE FIELD WHERE THEY TEST WATER RESOURCES AND OBSERVE CHANGES IN THE ENVIRONMENT BEING STUDIED.


THE GOVERNMENT MAY PROVIDE SCHOLARSHIP AID, INCLUDING TUITION AND SUBSISTENCE FOR STUDENTS.

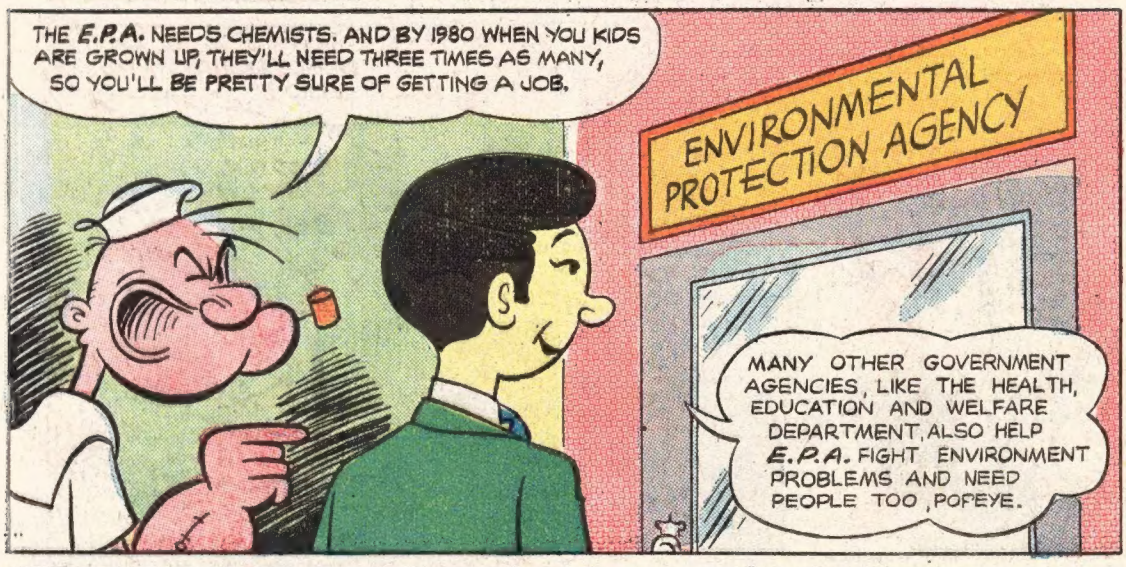
CHEMISTS WORKING IN ENVIRONMENTAL CONTROL HAVE TO STUDY HARD IN GRADE SCHOOL, THEN IN HIGH SCHOOL. NATURALLY, THEY TAKE COURSES IN CHEMISTRY.



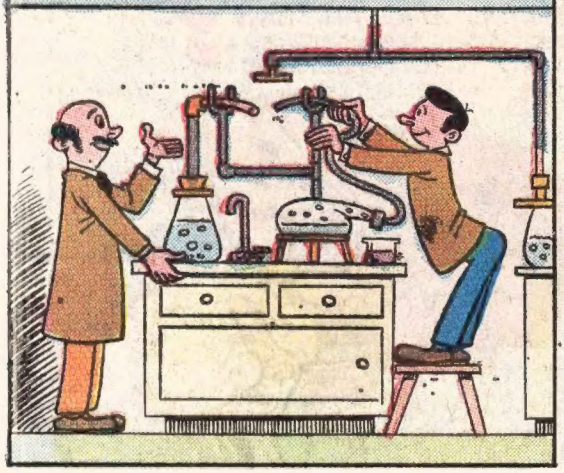
TO GET A DEGREE IN CHEMISTRY, STUDENTS HAVE TO WORK PRETTY HARD. CHEMISTS SOMETIMES GO, AFTER GRADUATION, TO GET A MASTER'S DEGREE OR A DOCTORATE IN CHEMISTRY.

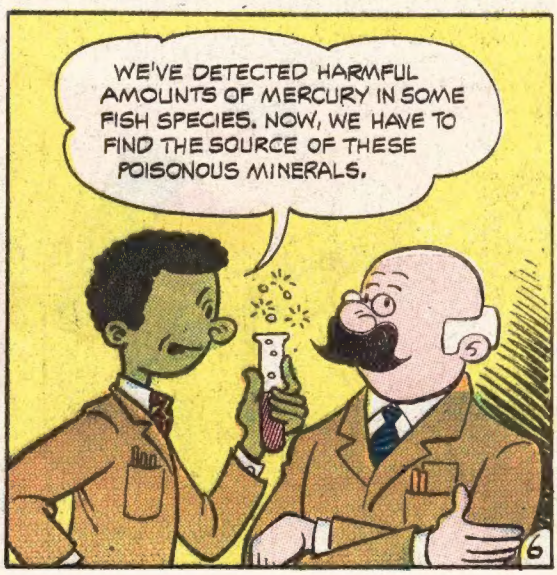


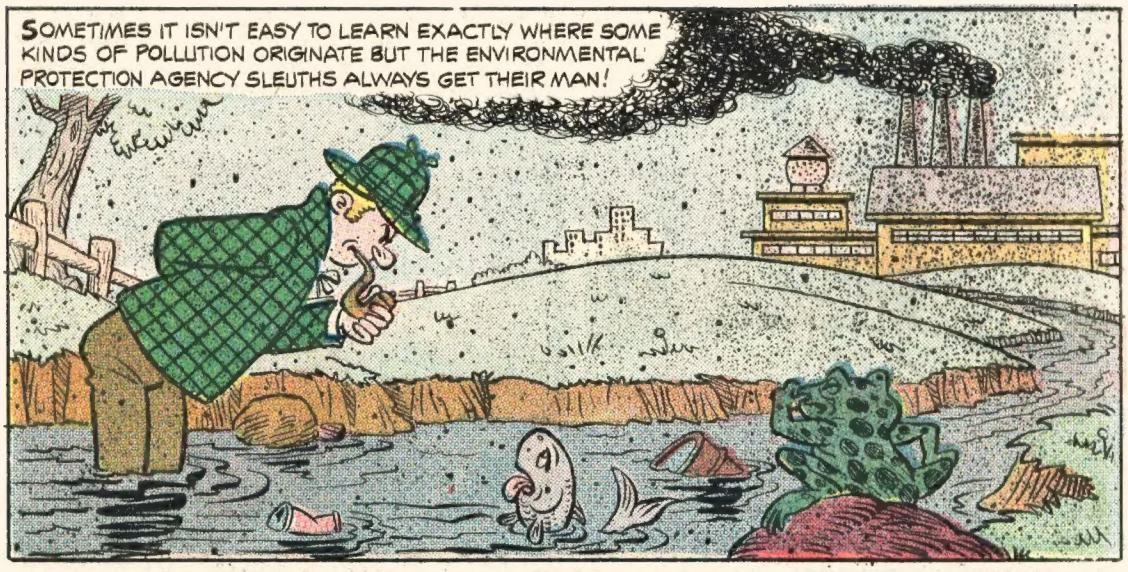
THE E.P.A. NEEDS CHEMISTS. AND BY 1980 WHEN YOU KIDS ARE GROWN UP, THEY'LL NEED THREE TIMES AS MANY, SO YOU'LL BE PRETTY SURE OF GETTING A JOB.

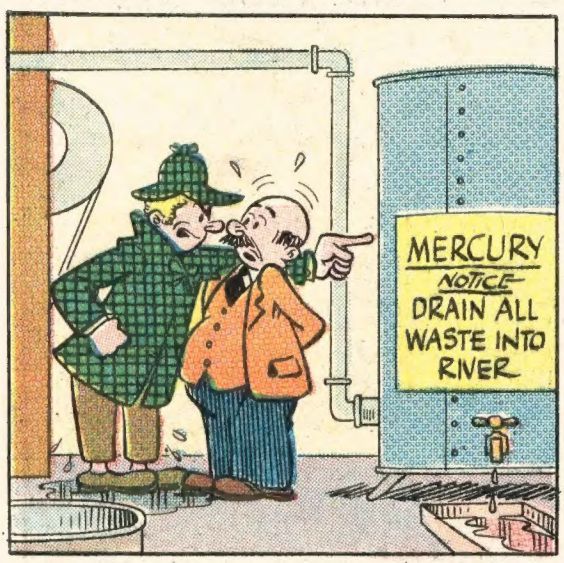


LABORATORY ATTENDANTS WORK UNDER THE SUPERVISION OF THE PROFESSIONALS, OPERATING EQUIPMENT AND MAINTAINING IT.

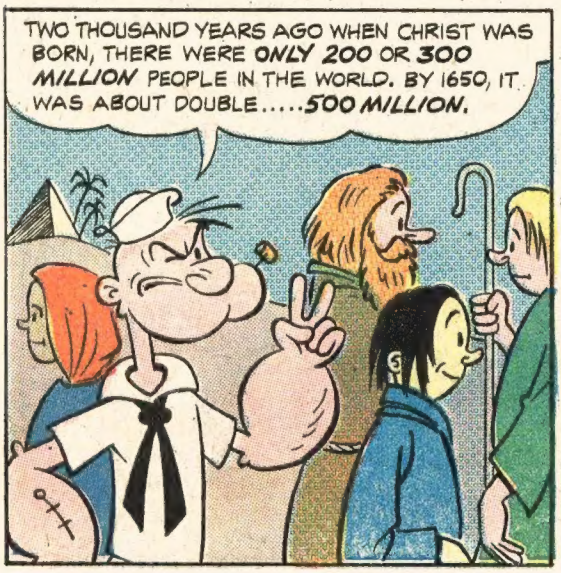


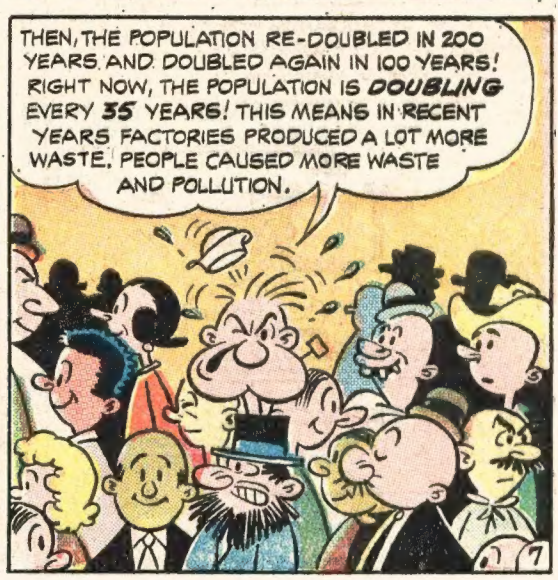



SOMETIMES IT ISN'T EASY TO LEARN EXACTLY WHERE SOME KINDS OF POLLUTION ORIGINATE BUT THE ENVIRONMENTAL PROTECTION AGENCY SLEUTHS ALWAYS GET THEIR MAN!


MERCURY
NOTICE
DRAIN ALL WASTE INTO RIVER

WHY DID THEY LET EVERYTHING GET SO BAD, POPEYE? COULDN'T PEOPLE SEE WHAT WAS HAPPENING TO OUR WORLD?
THAT'S A GOOD QUESTION, SWEE' PEA!.

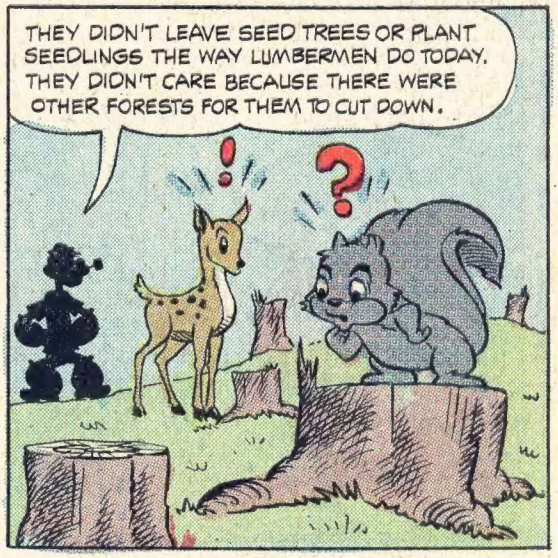

TWO THOUSAND YEARS AGO WHEN CHRIST WAS BORN, THERE WERE ONLY 200 OR 300 MILLION PEOPLE IN THE WORLD. BY 1650, IT WAS ABOUT DOUBLE.....500 MILLION.


THEN, THE POPULATION RE-DOUBLED IN 200 YEARS AND DOUBLED AGAIN IN 100 YEARS! RIGHT NOW, THE POPULATION IS DOUBLING EVERY 35 YEARS! THIS MEANS IN RECENT YEARS FACTORIES PRODUCED A LOT MORE WASTE. PEOPLE CAUSED MORE WASTE AND POLLUTION.

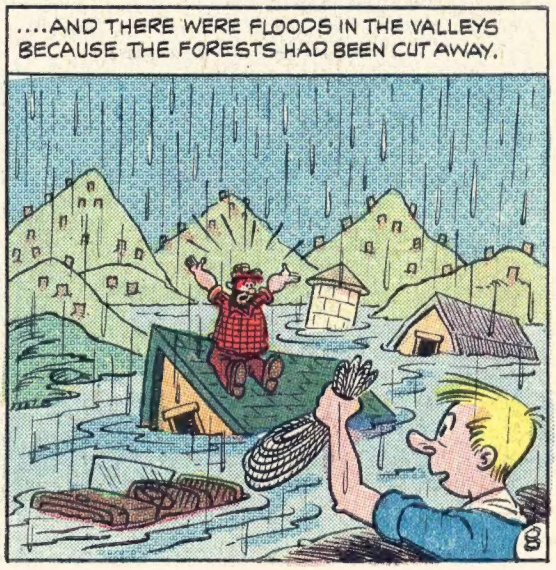
IT DIDN'T LOOK LIKE THIS UNTIL THE LAST FEW YEARS, SWEE'PEA. FOLKS THOUGHT THE WORLD WAS LOTS BIGGER THAN IT IS....NOBODY THOUGHT WE COULD EVER USE UP ALL THE AIR AND WATER.

WHEN LUMBERJACKS NEEDED TREES, THEY FIGURED THERE WOULD ALWAYS BE LOTS OF TREES SO.....

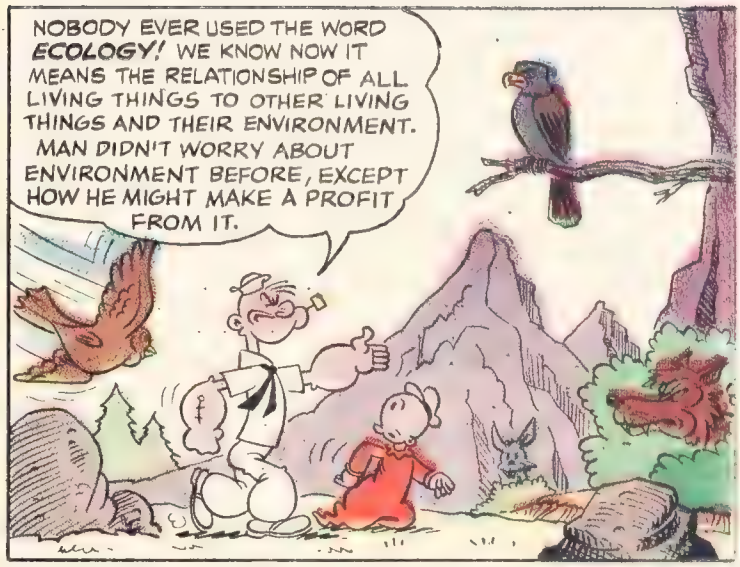
....THEY JUST WENT INTO THE FORESTS AND CUT DOWN EVERY TREE IN SIGHT!


THEY DIDN'T LEAVE SEED TREES OR PLANT SEEDLINGS THE WAY LUMBERMEN DO TODAY. THEY DIDN'T CARE BECAUSE THERE WERE OTHER FORESTS FOR THEM TO CUT DOWN.
!
?

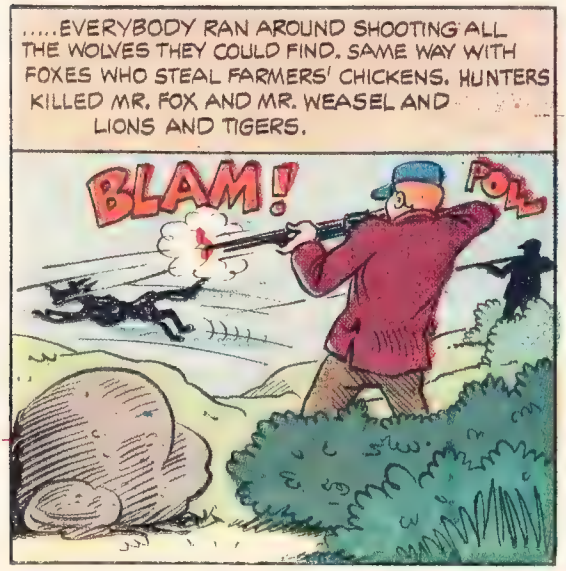
BUT WHEN HEAVY RAINS CAME, THERE WERE NO TREES TO RETAIN WATER IN THE FOREST LANDS. SOIL WASHED AWAY....


....AND THERE WERE FLOODS IN THE VALLEYS BECAUSE THE FORESTS HAD BEEN CUT AWAY.

PEOPLE TOOK WHAT THEY WANTED FROM THE EARTH. THEY DIDN'T THINK AHEAD OF TIME WHAT IT MIGHT DO TO THE ENVIRONMENT.


NOBODY EVER USED THE WORD ECOLOGY! WE KNOW NOW IT MEANS THE RELATIONSHIP OF ALL LIVING THINGS TO OTHER LIVING THINGS AND THEIR ENVIRONMENT. MAN DIDN'T WORRY ABOUT ENVIRONMENT BEFORE, EXCEPT HOW HE MIGHT MAKE A PROFIT FROM IT.

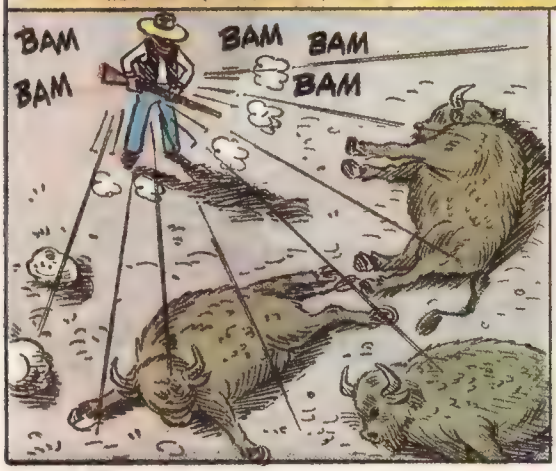
SEE THAT WOLF, SWEE'PEA? WELL, FOLKS USED TO FIGURE MR. WOLF WAS A BAD ACTOR AND THE WORLD WOULD BE BETTER OFF WITHOUT HIM, SO....


.....EVERYBODY RAN AROUND SHOOTING ALL THE WOLVES THEY COULD FIND. SAME WAY WITH FOXES WHO STEAL FARMERS' CHICKENS. HUNTERS KILLED MR. FOX AND MR. WEASEL AND LIONS AND TIGERS.
BLAM!
POW

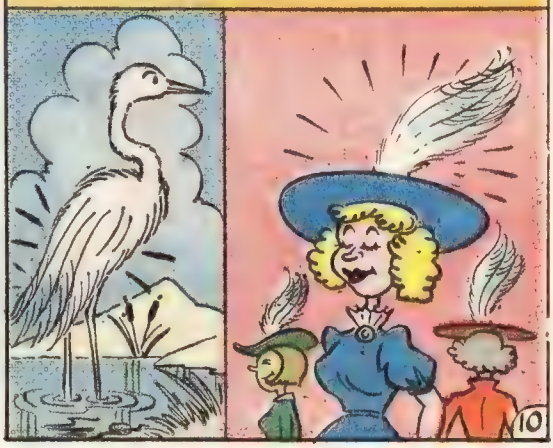
....AND IF THEY KEPT IT UP, THEY'D HAVE KILLED JUST ABOUT EVERYTHING YOU CAN THINK OF!
?

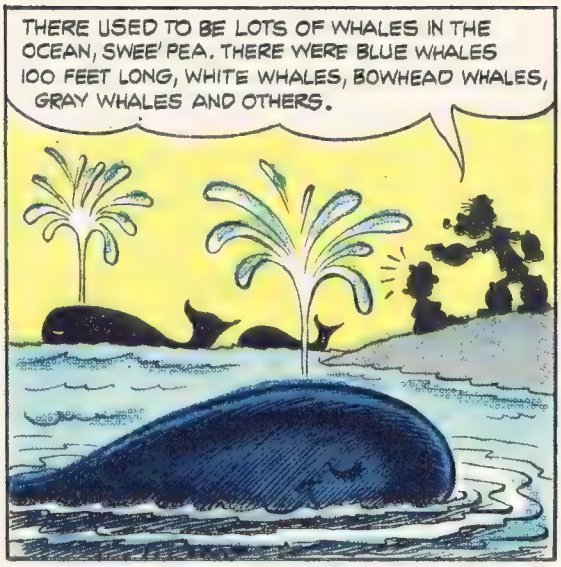
THE INDIANS LIVED ON BUFFALO FOR CENTURIES, HUNTING WHAT THEY NEEDED FOR FOOD. THEY USED THE BUFFALO HIDE TO MAKE BLANKETS AND TO COVER THEIR HOUSES, WHICH THEY CALLED TEPEES.

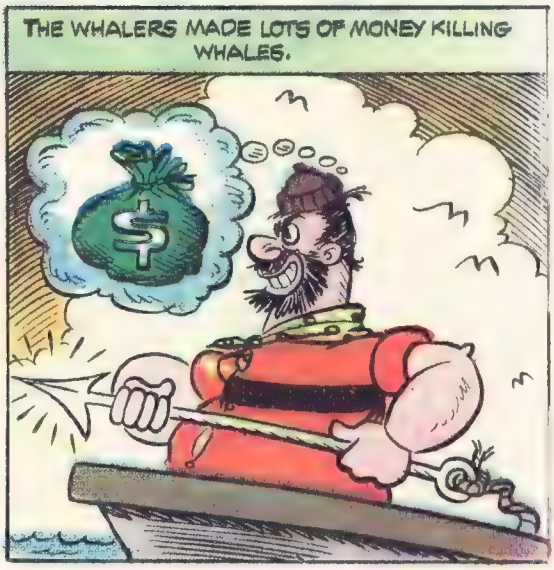
WHEN SO-CALLED 'CIVILIZATION' REACHED THE GREAT PLAINS, THE HUNTERS KILLED BUFFALO JUST FOR THE HIDE, LETTING THE CARCASSES ROT ON THE PRAIRIE. PRETTY SOON, WHERE THERE USED TO BE MILLIONS OF BUFFALO, THERE WERE ONLY A FEW LEFT.

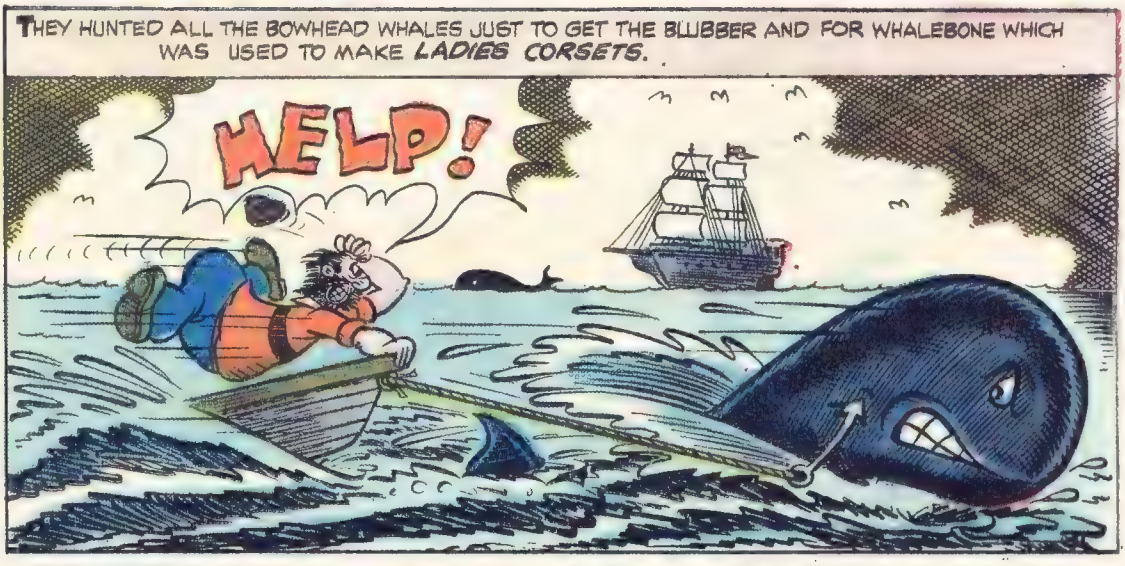


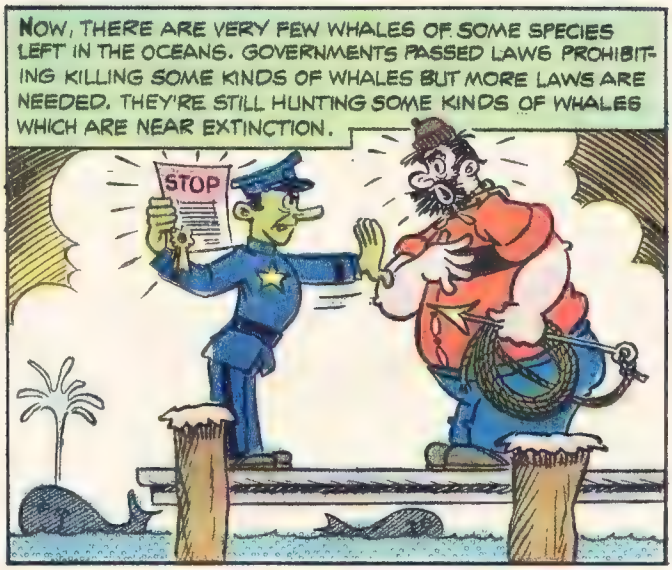
ONCE THERE WAS A BEAUTIFUL BIRD, THE SNOWY EGRET, BUT LADIES HAT MAKERS USED THEM TO MAKE HATS AND PRETTY SOON THE HUNTERS MADE THE BIRD ALMOST EXTINCT.



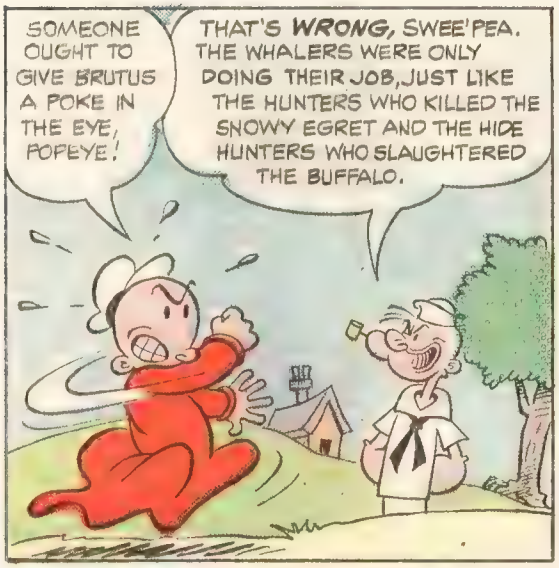

THERE USED TO BE LOTS OF WHALES IN THE OCEAN, SWEE' PEA. THERE WERE BLUE WHALES 100 FEET LONG, WHITE WHALES, BOWHEAD WHALES, GRAY WHALES AND OTHERS.

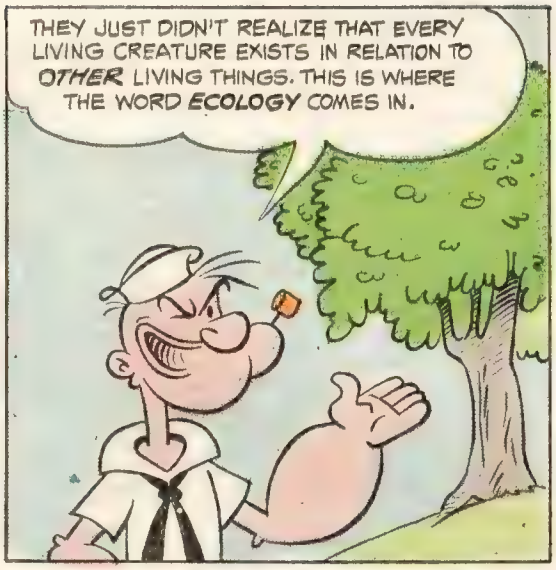

THE WHALERS MADE LOTS OF MONEY KILLING WHALES.

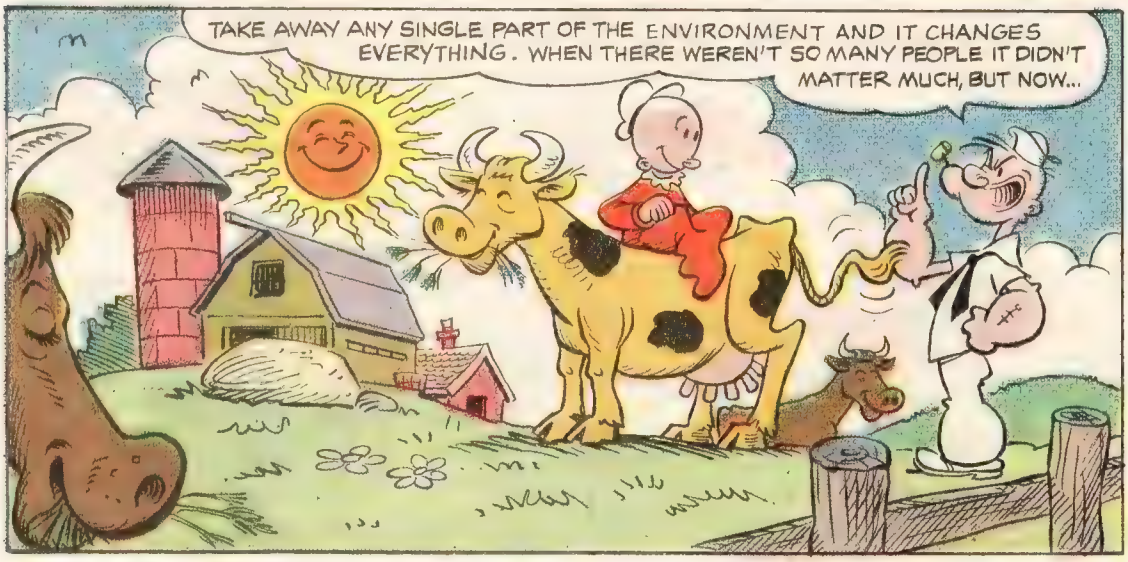

THEY HUNTED ALL THE BOWHEAD WHALES JUST TO GET THE BLUBBER AND FOR WHALEBONE WHICH WAS USED TO MAKE *LADIES CORSETS*.
HELP!

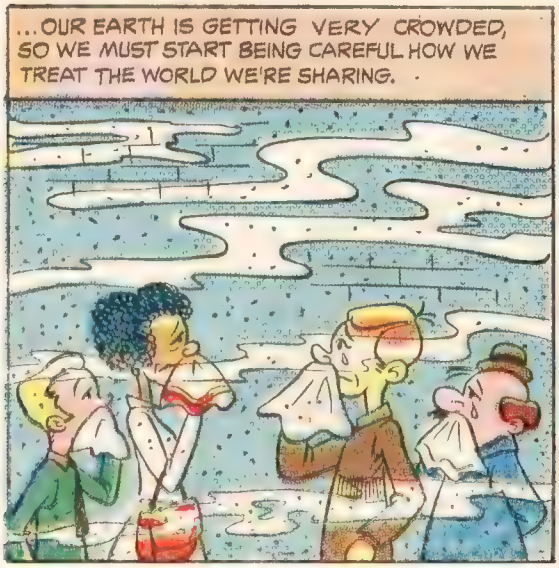

NOW, THERE ARE VERY FEW WHALES OF SOME SPECIES LEFT IN THE OCEANS. GOVERNMENTS PASSED LAWS PROHIBITING KILLING SOME KINDS OF WHALES BUT MORE LAWS ARE NEEDED. THEY'RE STILL HUNTING SOME KINDS OF WHALES WHICH ARE NEAR EXTINCTION.
STOP

THE WHALERS WEREN'T BAD MEN. THEY FIGURED THEY WERE ONLY MAKING A LIVING. NOBODY REALIZED THAT WHAT *HE* DID TO THE WORLD AROUND HIM AFFECTED EVERYONE ELSE TOO.

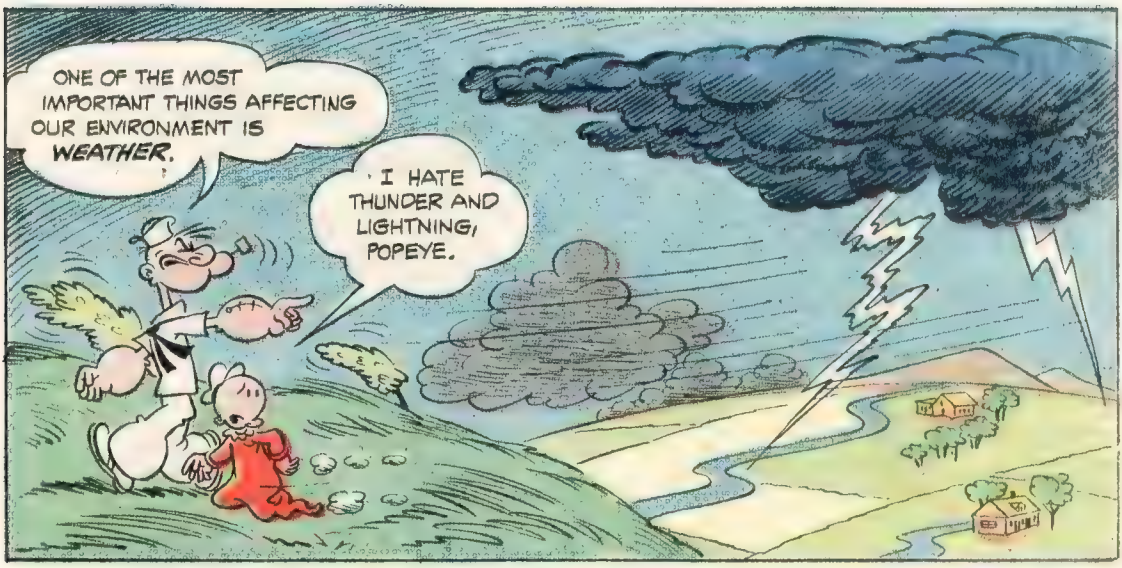

SOMEONE OUGHT TO GIVE BRUTUS A POKE IN THE EYE, POPEYE!
THAT'S WRONG, SWEE'PEA. THE WHALERS WERE ONLY DOING THEIR JOB, JUST LIKE THE HUNTERS WHO KILLED THE SNOWY EGRET AND THE HIDE HUNTERS WHO SLAUGHTERED THE BUFFALO.


THEY JUST DIDN'T REALIZE THAT EVERY LIVING CREATURE EXISTS IN RELATION TO OTHER LIVING THINGS. THIS IS WHERE THE WORD ECOLOGY COMES IN.

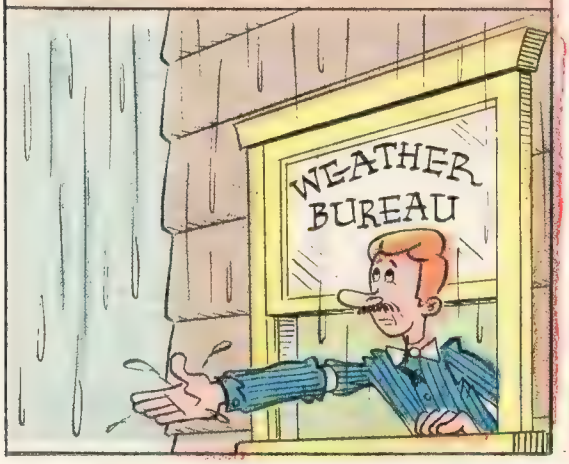

TAKE AWAY ANY SINGLE PART OF THE ENVIRONMENT AND IT CHANGES EVERYTHING. WHEN THERE WEREN'T SO MANY PEOPLE IT DIDN'T MATTER MUCH, BUT NOW...


...OUR EARTH IS GETTING VERY CROWDED, SO WE MUST START BEING CAREFUL HOW WE TREAT THE WORLD WE'RE SHARING.

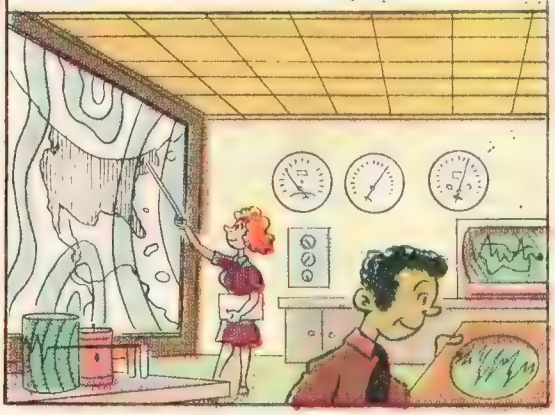
POPEYE, HOW CAN I STOP THEM FROM RUINING EVERYTHING?
YOU CAN PREPARE FOR A CAREER IN ENVIRONMENTAL CONTROL, AS I TOLD YOU, SWEE'PEA!



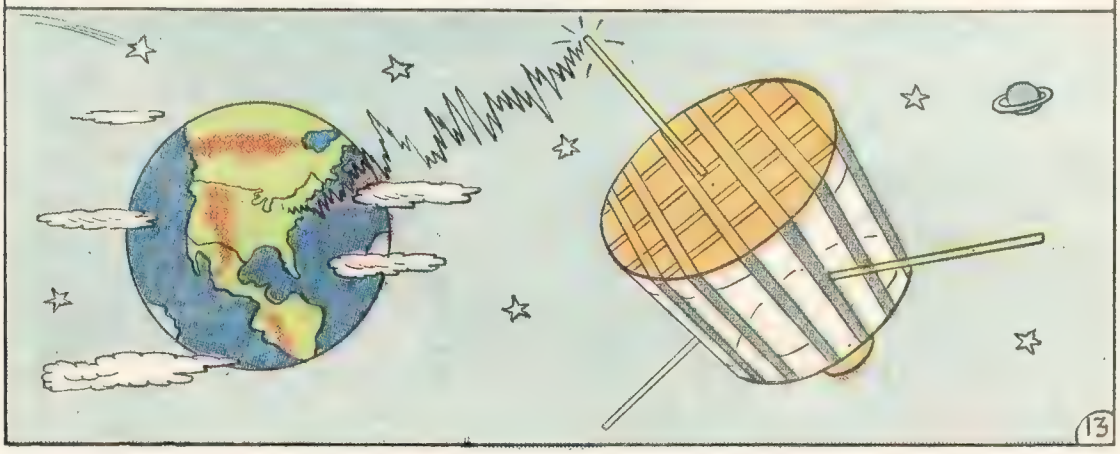
ONCE, WEATHER FORCASTING WAS PRIMITIVE. THE ONLY WAY THE WEATHERMAN KNEW IF IT WAS GOING TO RAIN WAS WHEN HE GOT HIS HEAD WET.



NOW, THE WEATHER BUREAU USES WEATHER CHARTS, BAROMETRIC READINGS, LONG-RANGE RADAR THAT CAN 'SEE' STORMS WHEN THEY'RE STILL MILES AWAY AND PREDICT WEATHER CONDITIONS VERY ACCURATELY.



ONE OF THE BEST TOOLS *METEOROLOGISTS* HAVE TO FORECAST WEATHER IS THE WEATHER SATELLITE. THE UNITED STATES HAS THEM IN SPACE TAKING PHOTOGRAPHS OF THE EARTH BELOW. STORMS ARE LOCATED THE MINUTE THEY BEGIN TO FORM. CLOUD PATTERNS ARE SEEN AND THEIR MOVEMENT PLOTTED.



HURRICANES ARE TRACKED AND METEOROLOGISTS WARN US WHEN AND WHERE THEY ARE GOING TO HIT.

HEAVY RAINS ARE PREDICTED. NOW, WE USUALLY KNOW WHEN FLOODS ARE GOING TO COME AND EMERGENCY MEASURES ARE TAKEN BEFORE THEY OCCUR.

SAFE AND SOUND!

METEOROLOGISTS PERFORM VERY INTERESTING WORK AND THEY'RE IMPORTANT PEOPLE. THEY'RE PAID WELL AND THE GOVERNMENT IS HIRING MORE AND MORE EACH YEAR.

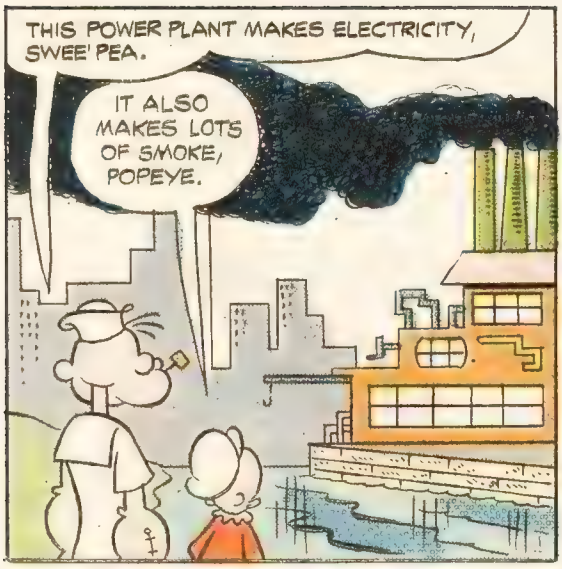
WEATHER BALLOON

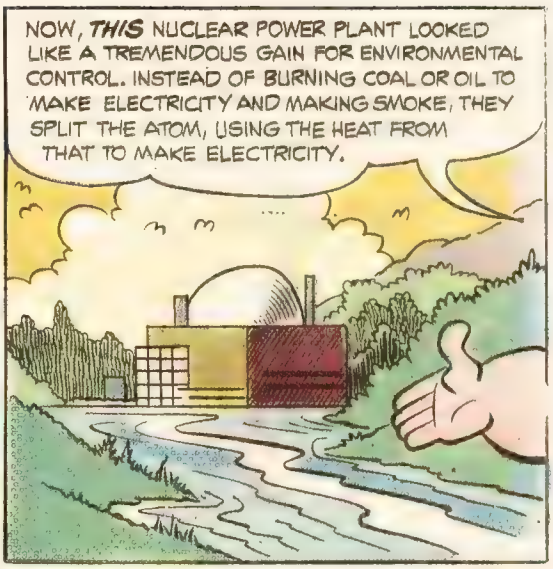
U.S. WEATHER STATION

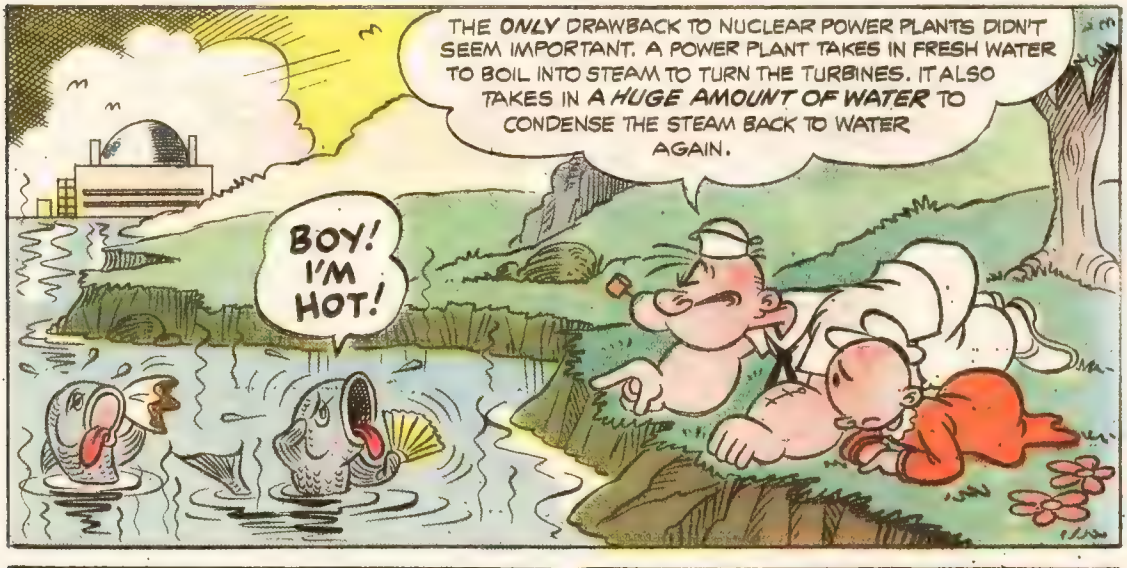
HOW CAN I GET A JOB AS A METEOROLOGIST, POPEYE?

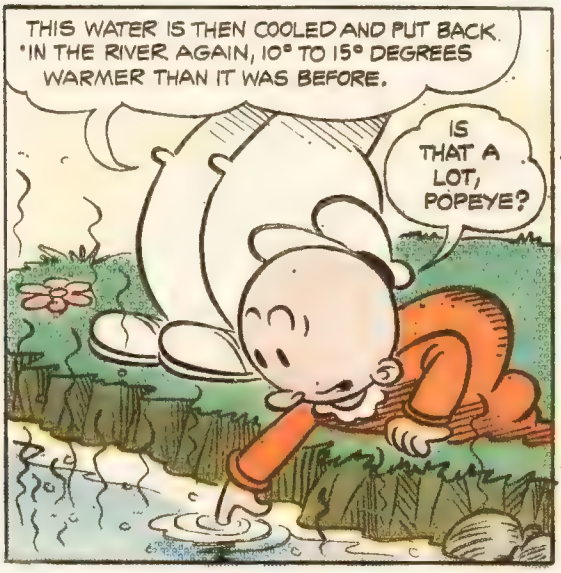
MOST METEOROLOGISTS HAVE COMPLETED A FOUR YEAR COLLEGE COURSE BUT SOME METEOROLOGICAL PERSONNEL QUALIFY WITH ON-THE-JOB TRAINING AS WELL.

AT METEOROLOGY STATIONS, BLUE COLLAR ATTENDANTS MAINTAIN AND OPERATE MACHINERY. THERE ARE CUSTODIANS, CLERKS AND OTHER JOBS THAT REQUIRE ONLY ON-THE-JOB TRAINING.


THIS POWER PLANT MAKES ELECTRICITY, SWEE' PEA.
IT ALSO MAKES LOTS OF SMOKE, POPEYE.


NOW, THIS NUCLEAR POWER PLANT LOOKED LIKE A TREMENDOUS GAIN FOR ENVIRONMENTAL CONTROL. INSTEAD OF BURNING COAL OR OIL TO MAKE ELECTRICITY AND MAKING SMOKE, THEY SPLIT THE ATOM, USING THE HEAT FROM THAT TO MAKE ELECTRICITY.

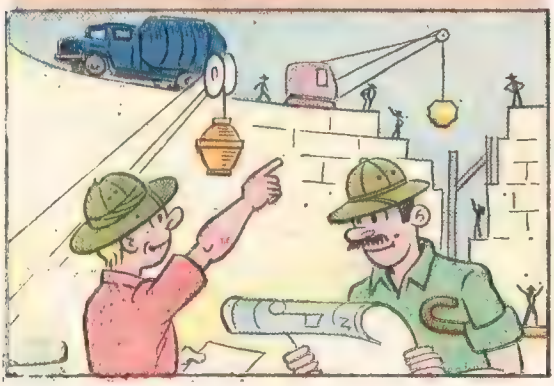

THE ONLY DRAWBACK TO NUCLEAR POWER PLANTS DIDN'T SEEM IMPORTANT. A POWER PLANT TAKES IN FRESH WATER TO BOIL INTO STEAM TO TURN THE TURBINES. IT ALSO TAKES IN A HUGE AMOUNT OF WATER TO CONDENSE THE STEAM BACK TO WATER AGAIN.
BOY! I'M HOT!

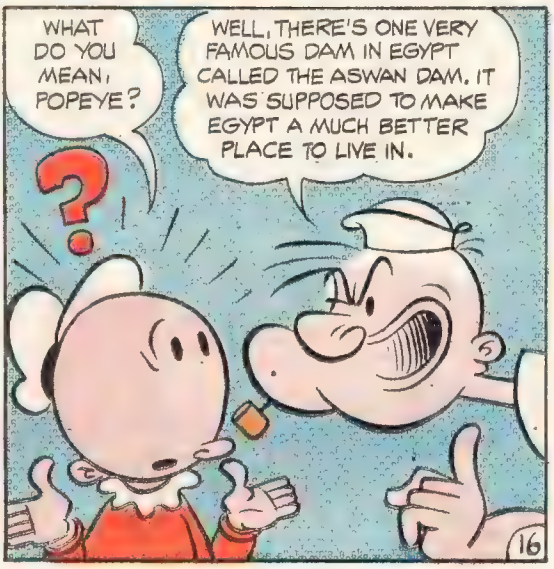

THIS WATER IS THEN COOLED AND PUT BACK IN THE RIVER AGAIN, 10° TO 15° DEGREES WARMER THAN IT WAS BEFORE.
IS THAT A LOT, POPEYE?

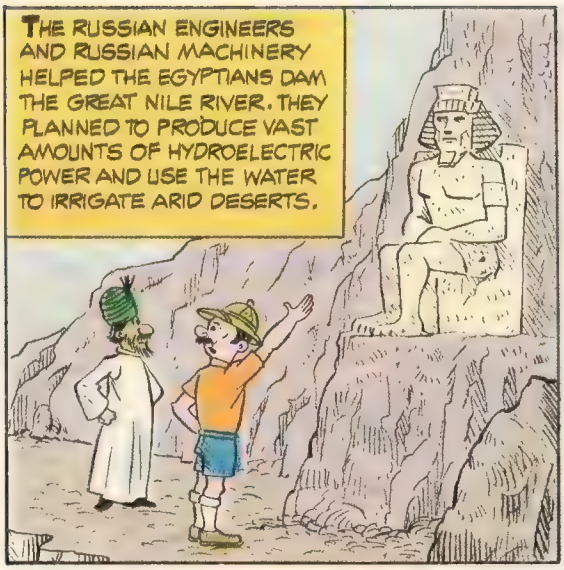
THEY DIDN'T THINK SO AT FIRST BUT NOW SCIENTISTS SAY IT'S ENOUGH TO KILL FISH AND UPSET THE ECOLOGY OF AN ENTIRE SYSTEM.

BESIDES THE NON-COLLEGE EMPLOYES, THERE'LL BE JOBS FOR ENGINEERS. THEY'LL HIRE GIRLS TOO AND HANDICAPPED PEOPLE WILL FIND JOBS IF THEY QUALIFY.

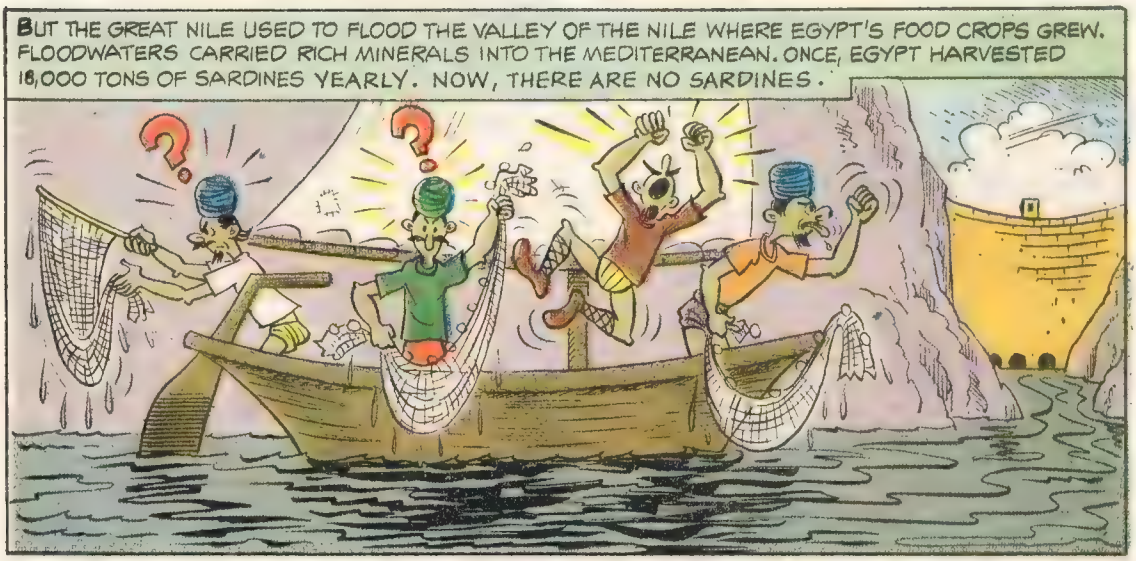
PHYSICISTS ARE TRAINED TO TAKE THE LONG LOOK AT A PROJECT. THEY TRY TO JUDGE A DAM'S PROBABLE EFFECT ON THE ENVIRONMENT. THEY DECIDE WHERE IRRIGATION SYSTEMS SHOULD GO AND ADVISE THE TECHNICIANS OF THE PROBABLE RESULTS OF THEIR ACTIONS.



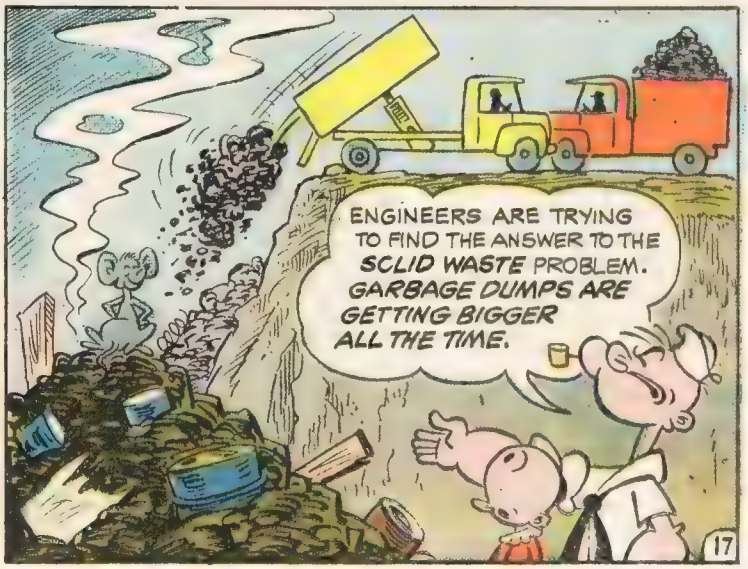



THE RUSSIAN ENGINEERS AND RUSSIAN MACHINERY HELPED THE EGYPTIANS DAM THE GREAT NILE RIVER. THEY PLANNED TO PRODUCE VAST AMOUNTS OF HYDROELECTRIC POWER AND USE THE WATER TO IRRIGATE ARID DESERTS.

THE PROJECT LOOKED WONDERFUL... AT FIRST.

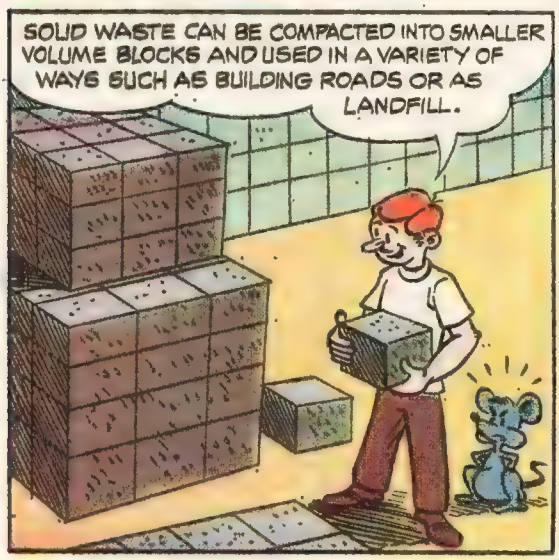

BUT THE GREAT NILE USED TO FLOOD THE VALLEY OF THE NILE WHERE EGYPT'S FOOD CROPS GREW. FLOODWATERS CARRIED RICH MINERALS INTO THE MEDITERRANEAN. ONCE, EGYPT HARVESTED 18,000 TONS OF SARDINES YEARLY. NOW, THERE ARE NO SARDINES.

THE ASWAN DAM HAS CHANGED THE ENTIRE ECOLOGY OF EGYPT AND EVEN AFFECTED THE MEDITERRANEAN SEA. IT'S A GOOD EXAMPLE OF NOT PLANNING AHEAD. THIS IS WHY THEIR CIVIL ENGINEERS SHOULD HAVE WORKED WITH ENVIRONMENTAL ENGINEERS.


ENGINEERS ARE TRYING TO FIND THE ANSWER TO THE SOLID WASTE PROBLEM. GARBAGE DUMPS ARE GETTING BIGGER ALL THE TIME.

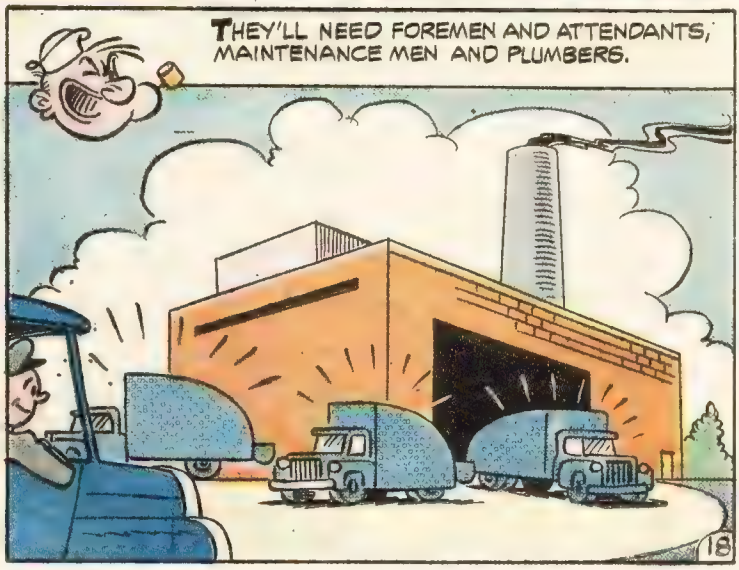
THIS BOTTLE WILL BREAK DOWN INTO POWDER WHEN EXPOSED TO SUNLIGHT AND SOIL ACIDS.
DEGRADABLE PACKAGING--THAT IS, PRODUCT CONTAINERS WHICH WILL CHANGE INTO BASIC ELEMENTS AFTER BEING THROWN OUT IS ONE WAY TO COPE WITH SOLID WASTES.

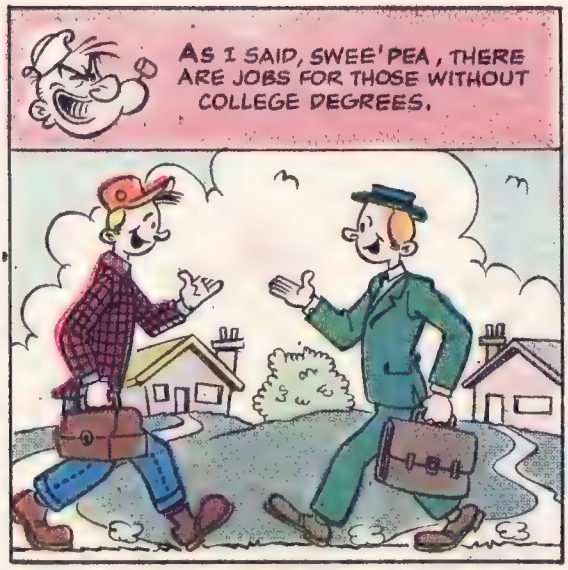
THIS PACKAGING, KNOWN AS COLLAGEN, MELTS IN WATER AND IS COOKED WITH THE CONTENTS....THERE IS NO SOLID WASTE.

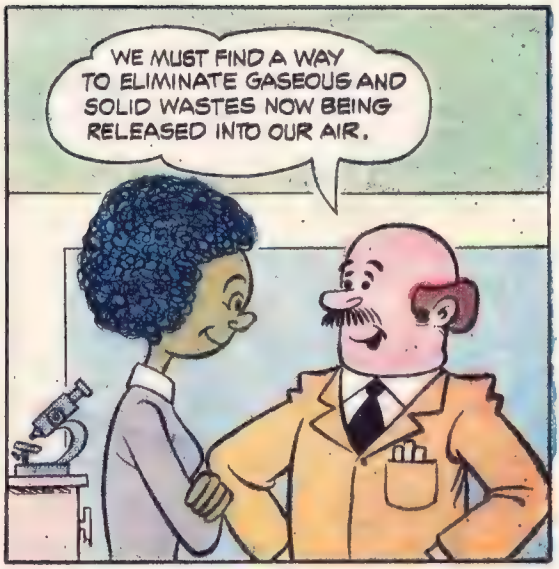

SOLID WASTE CAN BE COMPACTED INTO SMALLER VOLUME BLOCKS AND USED IN A VARIETY OF WAYS SUCH AS BUILDING ROADS OR AS LANDFILL.

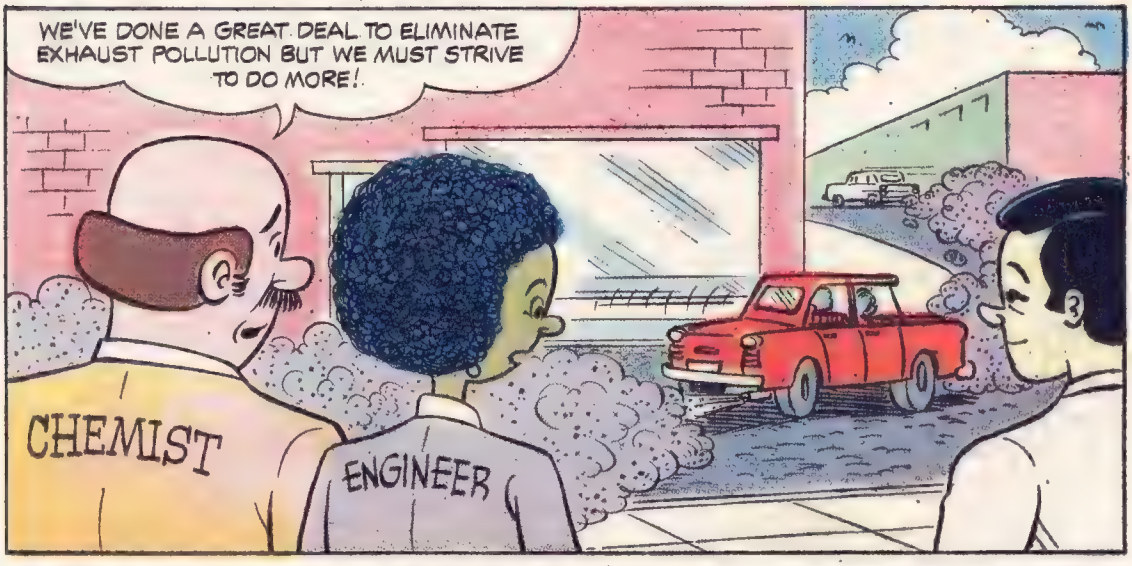
THE BEST SOLUTION TO OUR POLLUTION IS A TOTALLY CLOSED SYSTEM. INSTEAD OF HAVING VAST AMOUNTS OF WASTES TO DISPOSE OF, ALL MATERIALS SHOULD BE RECYCLED AND REUSED!

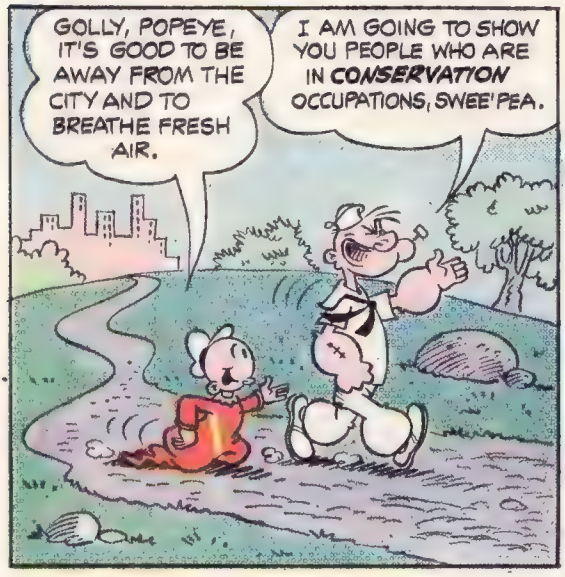
THERE IS A BIG FUTURE IN THIS FIELD, SWEE' PEA. INCINERATOR PLANT ATTENDANTS ARE NEEDED. ALSO SEWAGE DISPOSAL PLANT OPERATORS....

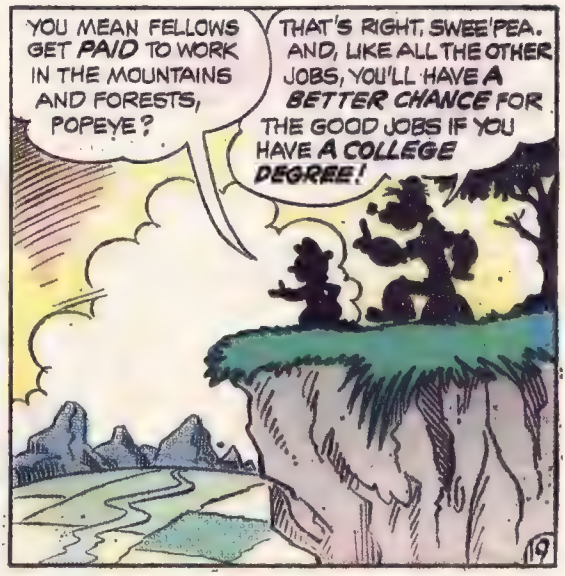

THEY'LL NEED FOREMEN AND ATTENDANTS, MAINTENANCE MEN AND PLUMBERS.


AS I SAID, SWEE'PEA, THERE ARE JOBS FOR THOSE WITHOUT COLLEGE DEGREES.


WE MUST FIND A WAY TO ELIMINATE GASEOUS AND SOLID WASTES NOW BEING RELEASED INTO OUR AIR.


WE'VE DONE A GREAT DEAL TO ELIMINATE EXHAUST POLLUTION BUT WE MUST STRIVE TO DO MORE!
CHEMIST
ENGINEER


GOLLY, POPEYE, IT'S GOOD TO BE AWAY FROM THE CITY AND TO BREATHE FRESH AIR.
I AM GOING TO SHOW YOU PEOPLE WHO ARE IN CONSERVATION OCCUPATIONS, SWEE'PEA.

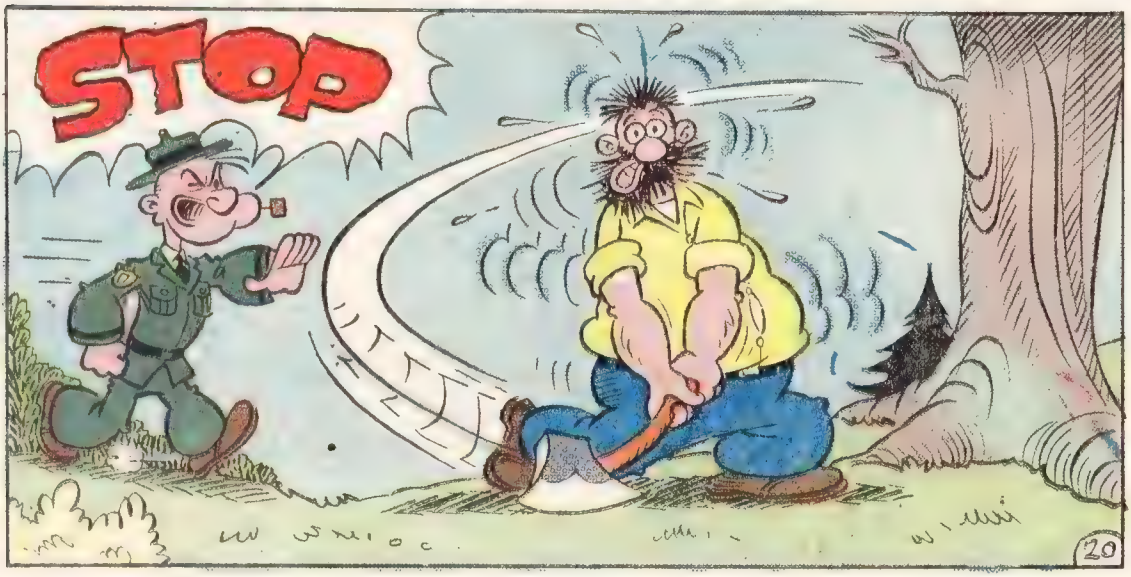

YOU MEAN FELLOWS GET PAID TO WORK IN THE MOUNTAINS AND FORESTS, POPEYE?
THAT'S RIGHT, SWEE'PEA. AND, LIKE ALL THE OTHER JOBS, YOU'LL HAVE A BETTER CHANCE FOR THE GOOD JOBS IF YOU HAVE A COLLEGE DEGREE!

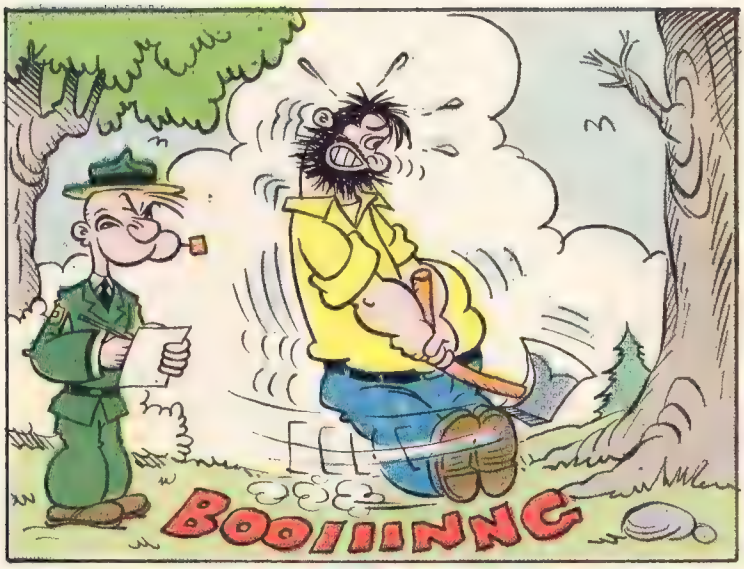
OF COURSE, THERE ARE JOBS FOR PEOPLE WITHOUT COLLEGE. THEY RECEIVE ON-THE-JOB TRAINING... AND THEY ARE PAID WELL FOR DOING INTERESTING WORK TOO.

WHAT KINDS OF CONSERVATION OCCUPATIONS ARE THERE, POPEYE?

WELL, THERE ARE THE FORESTERS....THEY USUALLY HAVE A BACHELOR'S DEGREE, SPECIALIZING IN FORESTRY. THEY MANAGE, DEVELOP AND PROTECT THE FOREST LANDS.

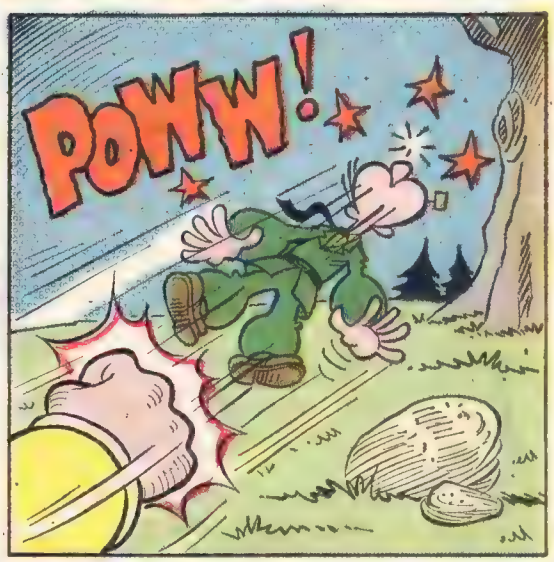
FORESTERS PROTECT THE TIMBER.


STOP


BOOIIINNG

GET OUT OF MY WAY, YOU SQUINCH-EYED RUNT!
I AM A FORESTER AND I WON'T LET YOU CHOP DOWN TREES IN THE RESERVE!

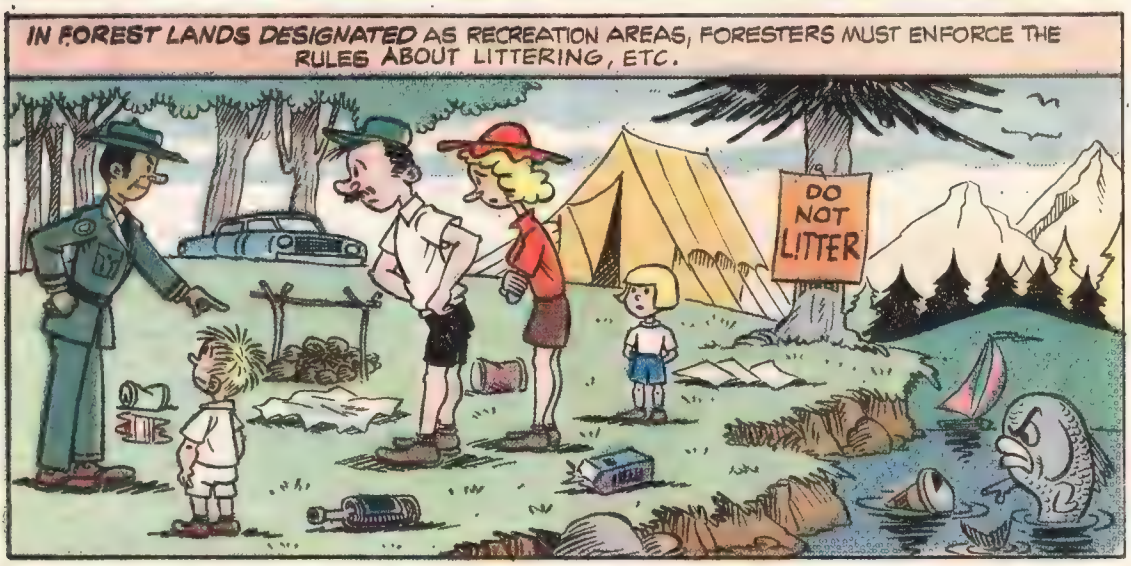
OH, YEAH?
YEAH!
SEZ WHO?
SEZ ME!
WE'LL SEE ABOUT THAT!


POWW!

NOW I'LL CHOP DOWN A LOT OF TREES!

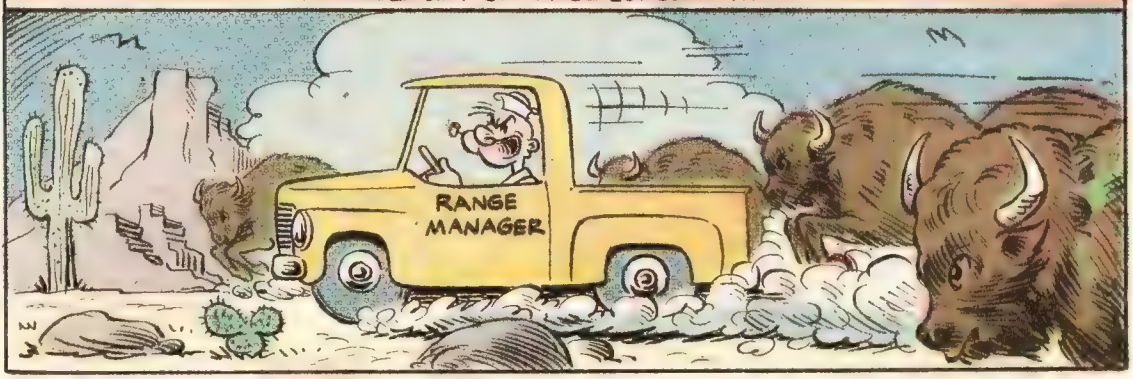
POWW!

FORESTERS ALSO LOOK AFTER THE ANIMALS IN THEIR AREA.
SLURP!


IN FOREST LANDS DESIGNATED AS RECREATION AREAS, FORESTERS MUST ENFORCE THE RULES ABOUT LITTERING, ETC.
DO NOT LITTER

IN MANY CASES, FORESTERS SUPERVISE THE HARVESTING AND CUTTING OF TREES AND THE PURCHASE OR SALE OF TIMBER.

RANGE MANAGERS USUALLY HAVE A BACHELOR'S DEGREE SPECIALIZING IN RANGE MANAGEMENT OR RANGE CONSERVATION.

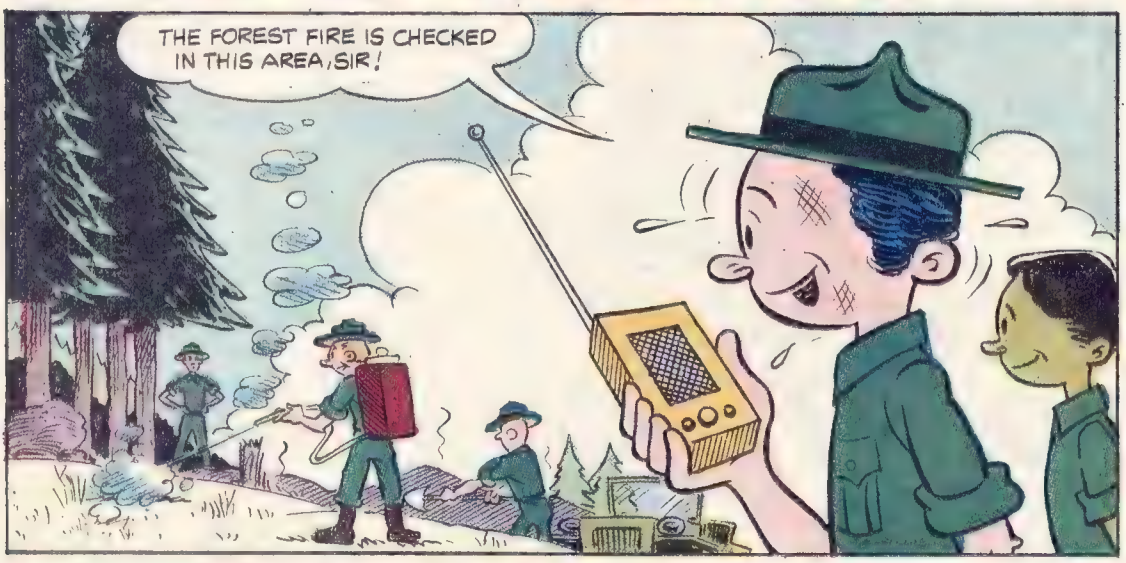


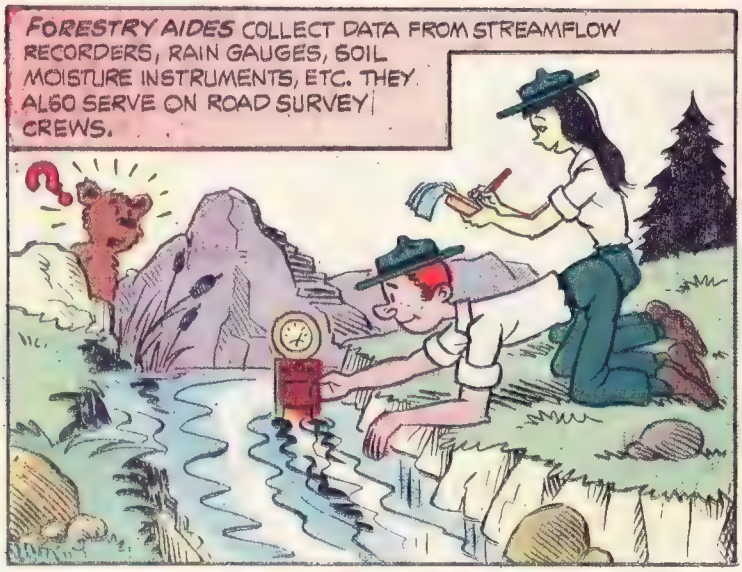
RANGE MANAGERS CARE FOR RANGELANDS, CONSERVE WILDLIFE HABITATS, AND WORK WITH LOCAL RANCHERS WHO USE THE RANGELAND TO GRAZE LIVESTOCK.

WHEN RANGELAND BECOMES DAMAGED THROUGH OVER-USE, RANGE MANAGERS CLOSE IT TO STOCKMEN AND TAKE STEPS TO RESTORE THE DAMAGED LAND.

MANY RANGE MANAGERS FIND HIGH-PAYING JOBS IN PRIVATE INDUSTRY, SWEE'PEA.

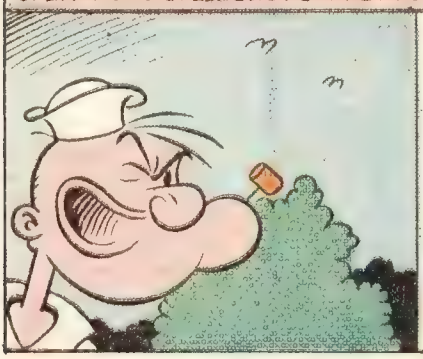
FORESTRY AIDES USUALLY DON'T HAVE MUCH EXPERIENCE BUT HAVE COMPLETED A 1 OR 2 YEAR COURSE IN FORESTRY. SOME ATTEND VOCATIONAL SCHOOLS WHERE THEY ACQUIRE TRAINING AND SKILLS. MANY FORESTRY AIDES ARE HIRED WHO CAN'T SPEAK ENGLISH.
COMMUNITY COLLEGE
C

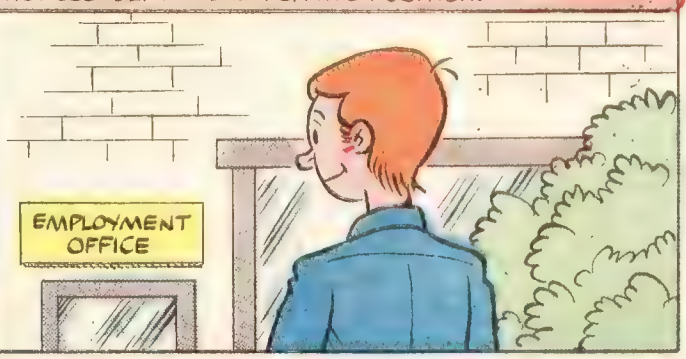

THE FOREST FIRE IS CHECKED IN THIS AREA, SIR!


FORESTRY AIDES COLLECT DATA FROM STREAMFLOW RECORDERS, RAIN GAUGES, SOIL MOISTURE INSTRUMENTS, ETC. THEY ALSO SERVE ON ROAD SURVEY CREWS.

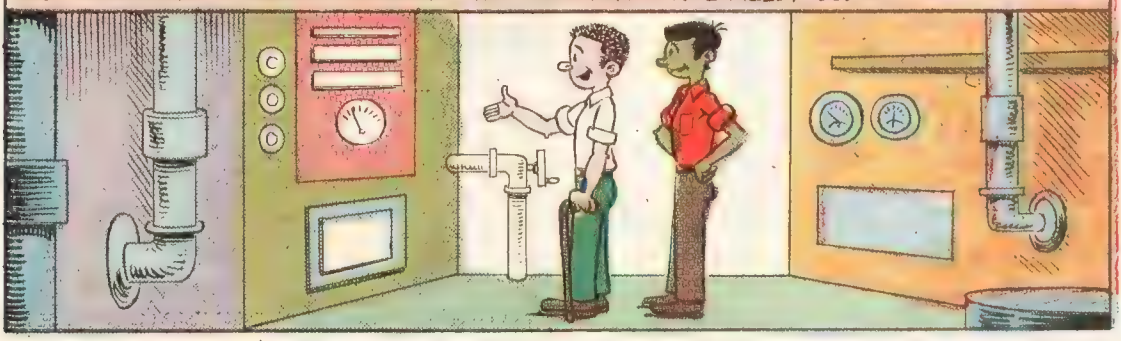
THE U.S. FOREST SERVICE HIRES PHYSICALLY HANDICAPPED PEOPLE WHERE POSSIBLE TOO, SWEE'PEA.

ANOTHER ENVIRONMENTAL PROTECTION JOB IS THAT OF ***SEWAGE DISPOSAL PLANT OPERATOR.*** COLLEGE DEGREES ARE NOT USUALLY NEEDED FOR THIS POSITION.

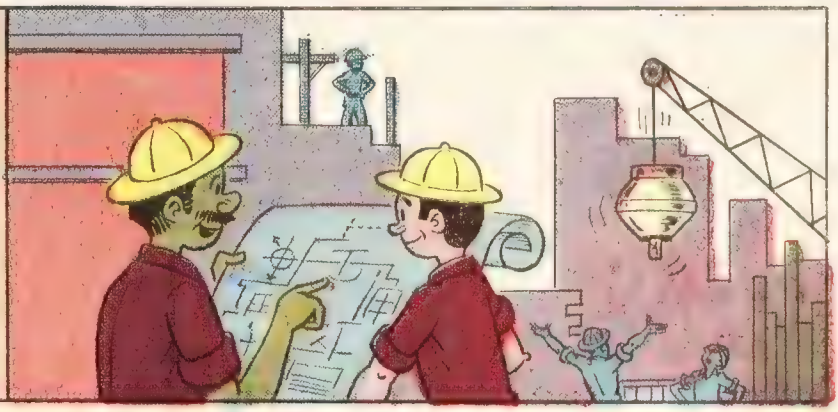




MOST OPERATORS ACQUIRE THEIR SKILLS ON THE JOB. OPERATORS CONTROL EQUIPMENT TO REMOVE WASTE MATERIALS FROM SEWAGE. TECHNICIANS OPERATE AND MAINTAIN ALLIED EQUIPMENT. THE PHYSICALLY HANDICAPPED FIND WORK IN THIS FIELD, TOO.



THIS IS A RAPIDLY GROWING OCCUPATION AS MORE ***WASTE-WATER TREATMENT PLANTS*** ARE BEING CONSTRUCTED ALL OVER THE COUNTRY. VOCATIONAL HIGH SCHOOLS TEACH BUILDING TRADES, AND THE PAY IS VERY GOOD!



LIFE SCIENTISTS MUST HAVE A BACHELOR'S DEGREE AND MOST WHO WORK IN THIS FIELD GET A GRADUATE DEGREE.

LIFE SCIENTISTS STUDY ALL LIVING ORGANISMS AND THE PROCESSES THAT DETERMINE THE NATURE OF LIFE. THEY ARE CONCERNED WITH MEN AND MICROBES, HEALTH AND DISEASE AND THE ENVIRONMENT.

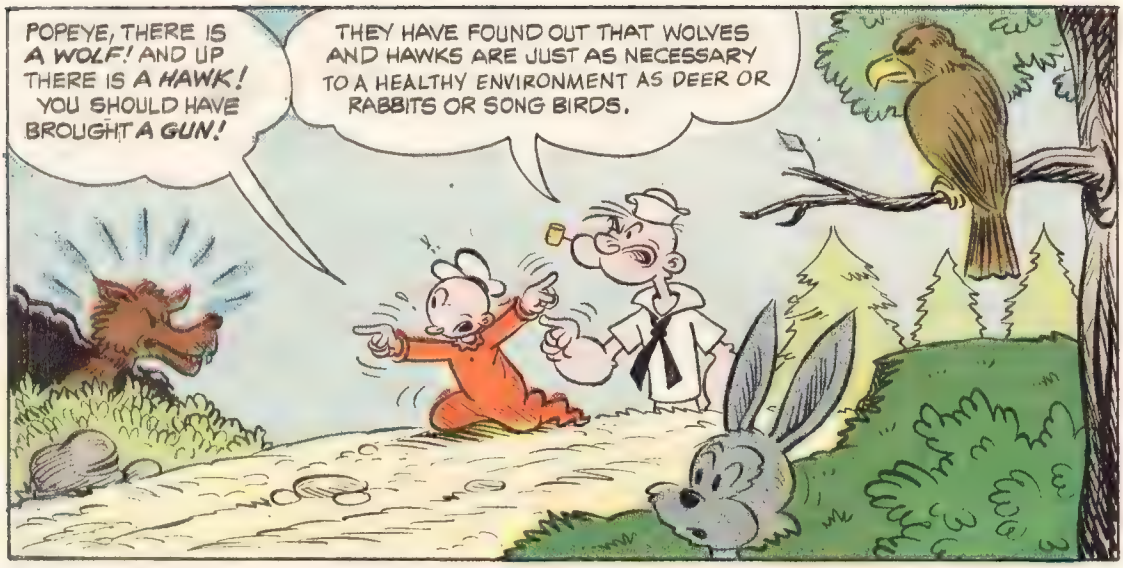
BOTANISTS SPECIALIZE IN THE STUDY OF PLANT LIFE. SOME SPECIALIZE IN THE RELATIONSHIP BETWEEN PLANTS AND THE ENVIRONMENT (PLANT ECOLOGIST), OTHERS IN THE STRUCTURE OF PLANTS (MORPHOLOGIST), AND PLANT DISEASES (PATHOLOGIST).

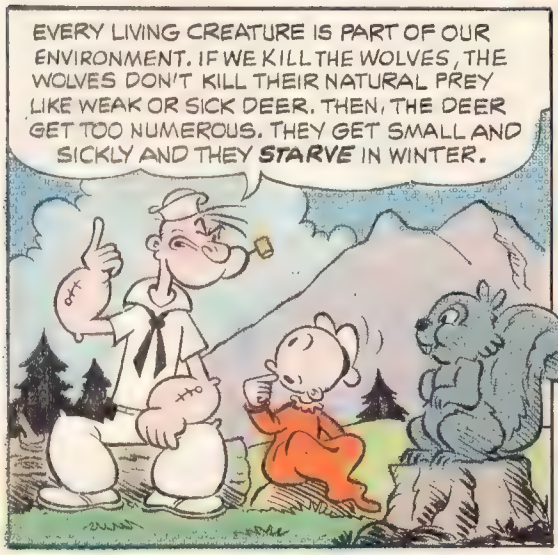
BOTANISTS TRY TO DEVELOP INSECTICIDES WHICH WILL NOT HARM PLANTS OR THEIR ENVIRONMENT.

OTHER BOTANISTS SPECIALIZE IN DETERMINING HOW AIR AND WATER POLLUTION AFFECT PLANT LIFE.

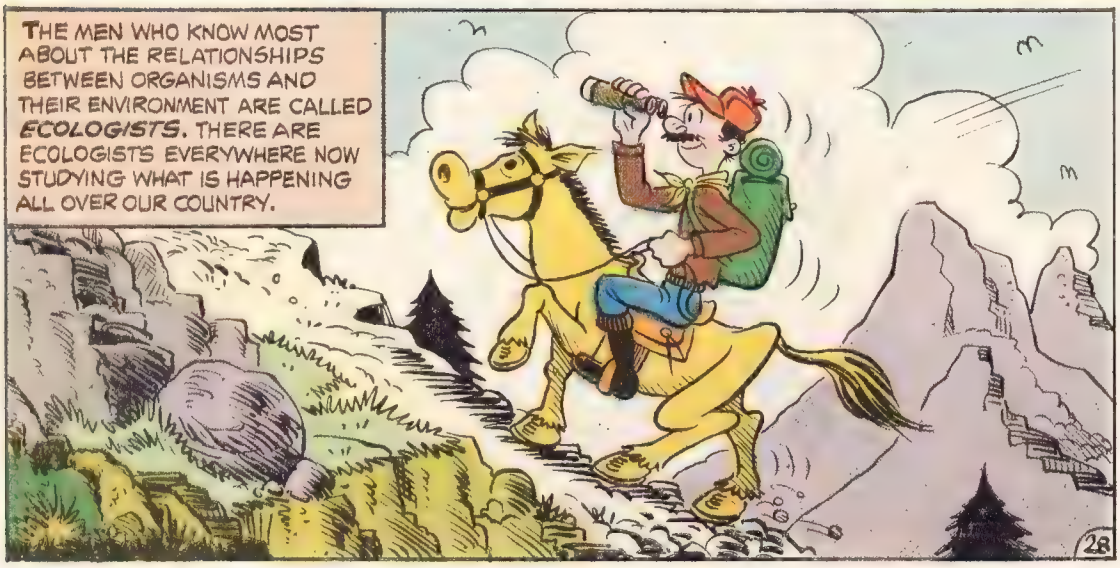
GOLLY, POPEYE, WITH ALL THE PHYSICISTS, CHEMISTS, FORESTERS AND ALL, WHY DO WE HAVE SO MUCH POLLUTION?

THAT'S EASY, SWEE'PEA. UNTIL THE MID-1960'S, NO ONE REALLY *CARED* ABOUT POLLUTION. STRIP MINERS TORE UP WHOLE MOUNTAINS FOR COAL, OIL COMPANIES SPILLED OIL, PAPER COMPANIES POLLUTED STREAMS, AND NO ONE PROTESTED.


POPEYE, THERE IS A WOLF! AND UP THERE IS A HAWK! YOU SHOULD HAVE BROUGHT A GUN!
THEY HAVE FOUND OUT THAT WOLVES AND HAWKS ARE JUST AS NECESSARY TO A HEALTHY ENVIRONMENT AS DEER OR RABBITS OR SONG BIRDS.

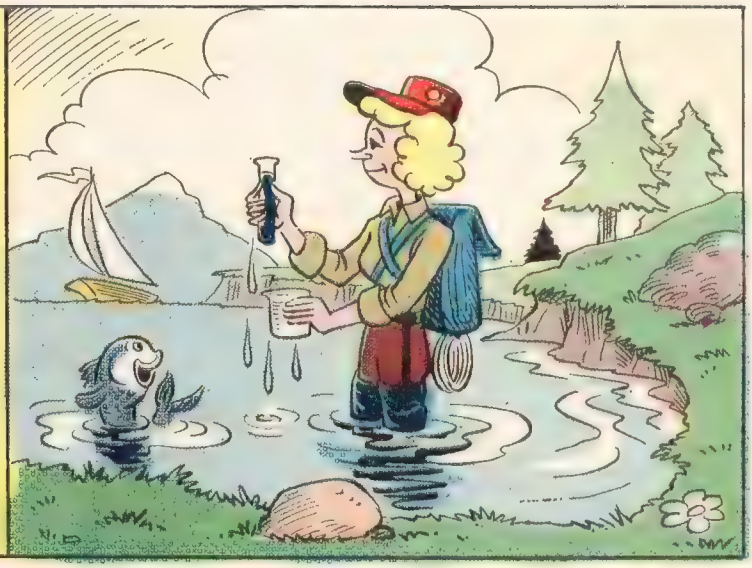

EVERY LIVING CREATURE IS PART OF OUR ENVIRONMENT. IF WE KILL THE WOLVES, THE WOLVES DON'T KILL THEIR NATURAL PREY LIKE WEAK OR SICK DEER. THEN, THE DEER GET TOO NUMEROUS. THEY GET SMALL AND SICKLY AND THEY STARVE IN WINTER.

WE USED TO THINK HAWKS WERE BAD TOO BECAUSE THEY KILLED ANIMALS AND BIRDS, BUT THEY KEEP FIELD MICE, RATS, AND OTHER RODENTS FROM BECOMING TOO NUMEROUS.

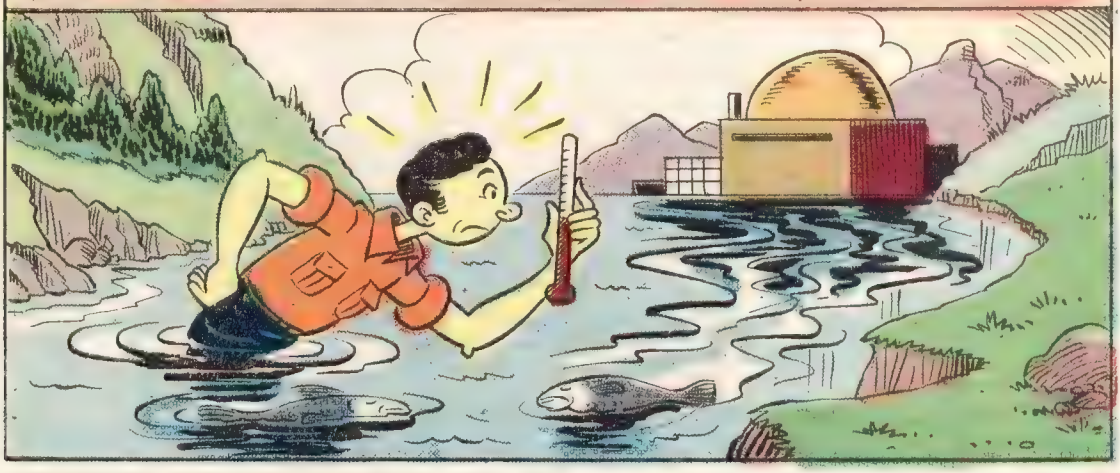

THE MEN WHO KNOW MOST ABOUT THE RELATIONSHIPS BETWEEN ORGANISMS AND THEIR ENVIRONMENT ARE CALLED ECOLOGISTS. THERE ARE ECOLOGISTS EVERYWHERE NOW STUDYING WHAT IS HAPPENING ALL OVER OUR COUNTRY.

ECOLOGISTS ARE VERY SMART COOKIES. THEY HAVE DEGREES FROM COLLEGE. THEY STUDY THE ENVIRONMENTAL EFFECTS OF RAINFALL, TEMPERATURE AND ALTITUDE ON ORGANISMS.

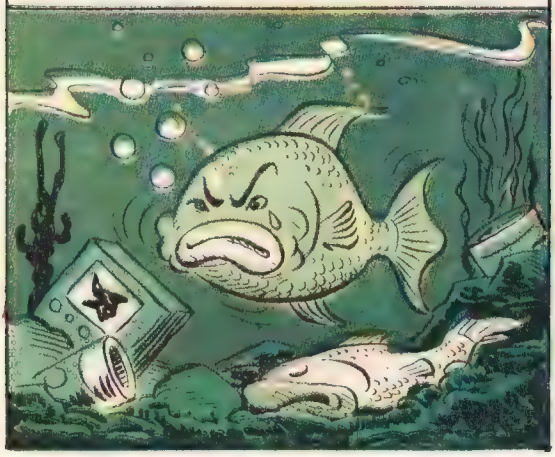
THIS ECOLOGIST IS SAMPLING PHYTOPLANKTON, THE VERY TINY PLANTS WHICH PRODUCE MOST OF THE OXYGEN WE BREATHE.



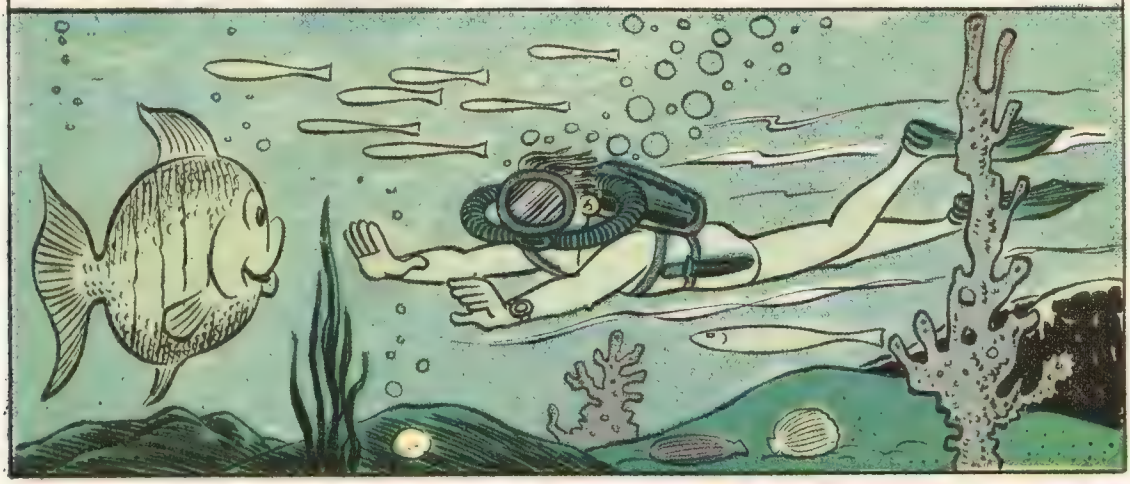
THIS ECOLOGIST IS TAKING THE WATER TEMPERATURE DOWNSTREAM FROM A NUCLEAR POWER PLANT. HE HAS ALREADY NOTED THAT SOME FISH STOP LAYING EGGS AT A CERTAIN TEMPERATURE. OTHERS DIE WHEN THE WATER REACHES 79°



ECOLOGISTS HAVE LEARNED HOW INDUSTRIAL MERCURY WHICH SINKS TO THE BOTTOM OF WATERWAYS CHANGES CHEMICALLY AND IS EATEN BY FISH WHICH ARE DANGEROUS TO US TO EAT.

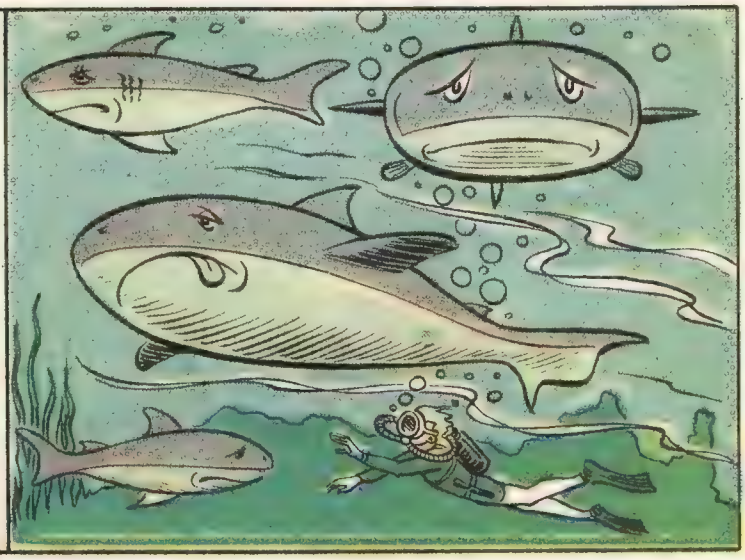


THIS IS A ZOOLOGIST AT WORK TRYING TO DETERMINE THE EFFECT OF WATER POLLUTION ON AQUATIC LIFE. ZOOLOGISTS ARE COLLEGE GRADUATES AND MOST OF THEM HAVE A MASTER'S DEGREE OR A DOCTORATE IN THIS FIELD.

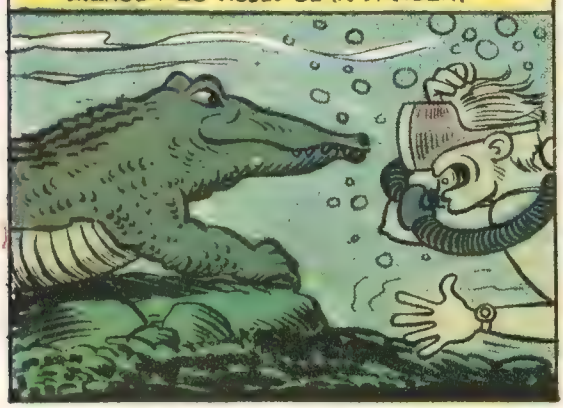


WHERE OYSTER BEDS ONCE FLOURISHED OFF OUR COASTS, WATER POLLUTION HAS KILLED THEM OFF OR POISONED THEM TO SUCH AN EXTENT THAT THEY'RE NOT FIT TO EAT.

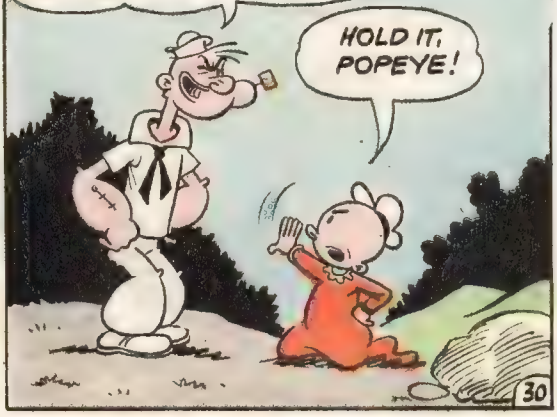
WATER POLLUTION OFTEN ROBS THE WATER OF OXYGEN, SUFFOCATING THE FISH IN THAT AREA.

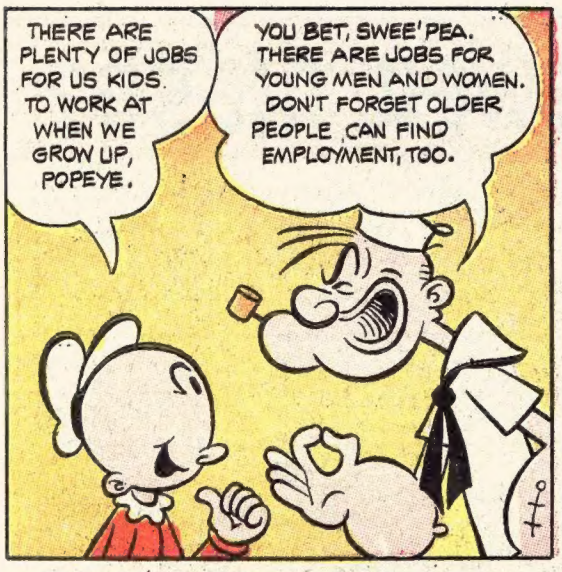


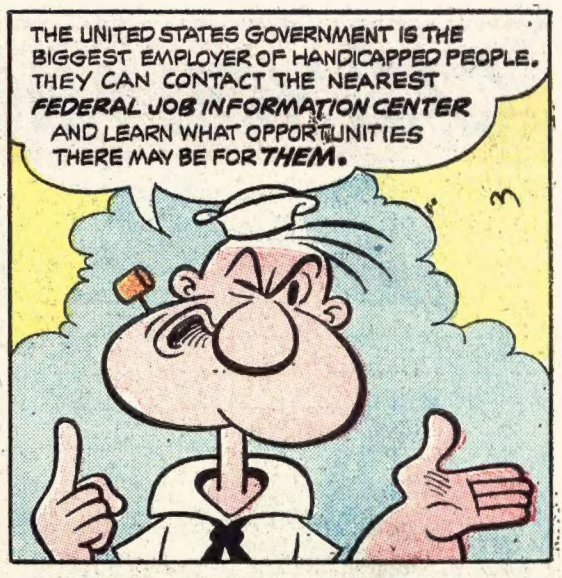
IN FLORIDA, ALLIGATORS WERE SLAUGHTERED TO MAKE SHOES AND POCKETBOOKS. THEN, WHEN IT WAS ALMOST TOO LATE, ECOLOGISTS TOLD PEOPLE THAT ALLIGATORS WERE NEEDED FOR A NUMBER OF REASONS OR ALL LIFE IN THE EVERGLADES WOULD BE IN DANGER.

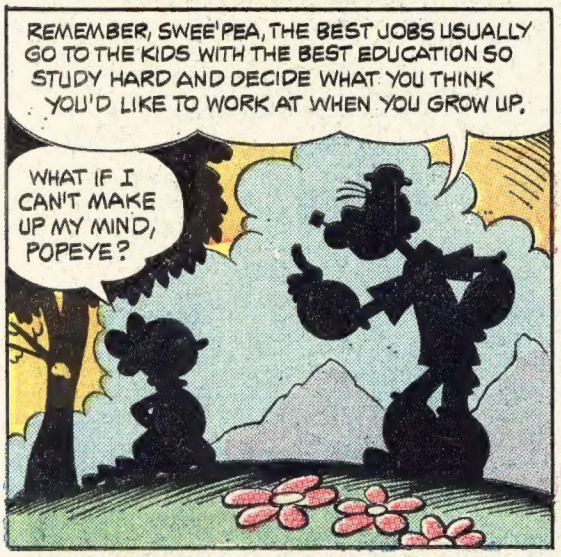


THERE ARE *LANDSCAPE ARCHITECTS* WORKING WITH THE ENVIRONMENTAL PROTECTION PEOPLE TOO. THEN THE *CIVIL ENGINEERS* DESIGN WATER TREATMENT PLANTS, SOLID WASTE DISPOSAL FA...

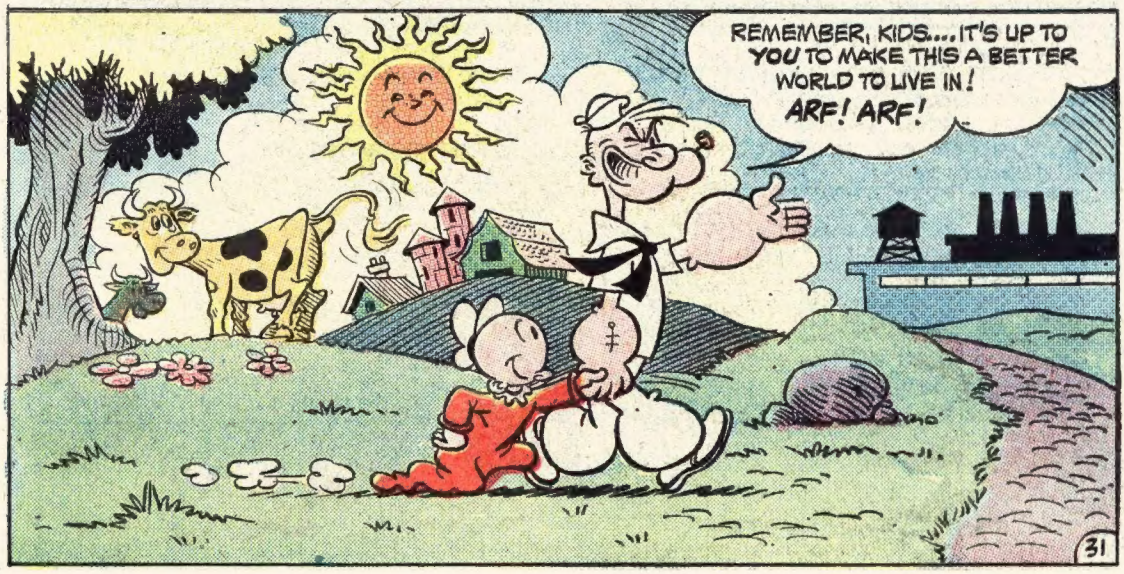



THERE ARE PLENTY OF JOBS FOR US KIDS TO WORK AT WHEN WE GROW UP, POPEYE.
YOU BET, SWEE'PEA. THERE ARE JOBS FOR YOUNG MEN AND WOMEN. DON'T FORGET OLDER PEOPLE CAN FIND EMPLOYMENT, TOO.


THE UNITED STATES GOVERNMENT IS THE BIGGEST EMPLOYER OF HANDICAPPED PEOPLE. THEY CAN CONTACT THE NEAREST FEDERAL JOB INFORMATION CENTER AND LEARN WHAT OPPORTUNITIES THERE MAY BE FOR THEM.


REMEMBER, SWEE'PEA, THE BEST JOBS USUALLY GO TO THE KIDS WITH THE BEST EDUCATION SO STUDY HARD AND DECIDE WHAT YOU THINK YOU'D LIKE TO WORK AT WHEN YOU GROW UP.
WHAT IF I CAN'T MAKE UP MY MIND, POPEYE?

THEN GO TO YOUR GUIDANCE COUNSELOR! HE'LL GIVE YOU GOOD ADVICE, SWEE'PEA.
I'LL DO AS YOU SAY, POPEYE!


REMEMBER, KIDS.... IT'S UP TO YOU TO MAKE THIS A BETTER WORLD TO LIVE IN! ARF! ARF!

CAN YOU ANSWER THESE?

1. LIST FIVE JOBS IN ENVIRONMENTAL CAREERS YOU MIGHT LIKE. NEXT TO EACH JOB LIST THE TRAINING YOU WOULD NEED. THE ANSWERS ARE IN THIS BOOK.

JOBS	TRAINING

2. DID YOU FIND ANY JOBS YOU DID NOT KNOW ABOUT? _____ YES _____ NO _____

3. LIST SIX ENVIRONMENTAL JOBS YOU DID NOT KNOW ABOUT.

_____ _____ _____

_____ _____ _____

4. ENVIRONMENTAL JOBS ARE POSSIBLE WITH TRAINING THAT INCLUDES:

CHECK ONE	YES	NO		YES	NO
HIGH SCHOOL DIPLOMA	____	____	COLLEGE DEGREE	____	____
JUNIOR COLLEGE DEGREE	____	____	GRADUATE DEGREE	____	____
ON THE JOB TRAINING	____	____	APPRENTICESHIP TRAINING	____	____
NO HIGH SCHOOL DIPLOMA	____	____	VOCATIONAL SCHOOL	____	____

5. ENVIRONMENTAL JOBS MAY BE FOUND IN:

CHECK ONE	YES	NO		YES	NO
BUSINESS AND INDUSTRY	____	____	AGRICULTURE	____	____
MANY CITY AGENCIES	____	____	THE SEA	____	____
FORESTS	____	____	WEATHER STATIONS	____	____
NATIONAL AND STATE PARKS	____	____	WORKING IN BIOLOGY	____	____

6. ENVIRONMENTAL CAREER WORKERS ARE TRYING TO SOLVE PROBLEMS IN:

	YES	NO		YES	NO
AIR POLLUTION	____	____	NOISE POLLUTION	____	____
WATER POLLUTION	____	____	BALANCE NEEDED FOR SOUND ECOLOGY	____	____

7. HAS THE THOUGHTLESSNESS OF MAN CAUSED SOME OF OUR ANIMALS AND BIRDS TO BECOME NEARLY EXTINCT? _____ YES ____ NO ____

8. NAME ONE BIRD AND ONE ANIMAL THIS COUNTRY HAS NEARLY LOST.
BIRD _____ ANIMAL _____

9. THERE ARE MANY ENVIRONMENTAL JOBS FOR:
TECHNICIANS ____ YES ____ NO ____ AIDES ____ YES ____ NO ____

10. EACH ONE OF US MUST HELP PRESERVE OUR ENVIRONMENT _____ YES _____ NO _____

11. ARE ENVIRONMENTAL CAREERS LIMITED TO PEOPLE WITH COLLEGE DEGREES? _____ _____

12. DOES POPEYE THINK IT IS IMPORTANT TO STUDY AND FINISH SCHOOL IF YOU WANT AN ENVIRONMENTAL CAREER? _____ _____

HEY, KIDS-

IF YOU WOULD LIKE A JOB OR CAREER HELPING TO REPAIR THE DAMAGE TO OUR AIR, WATER, SOIL, PLANT, ANIMAL AND OTHER EARTH RESOURCES, OR A JOB OR CAREER PROTECTING, CONTROLLING AND SAVING THESE RESOURCES, ENVIRONMENTAL CONTROL WORK OFFERS YOU MANY INTERESTING, EVEN EXCITING REWARDS AND SATISFACTIONS.

YOUR JOB MIGHT BE ANYWHERE ON, ABOVE OR BELOW THE EARTH'S SURFACE. MANY INTERESTING AND FINANCIALLY REWARDING JOBS ARE AVAILABLE FOR PEOPLE WITH A WIDE RANGE OF INTERESTS, EXPERIENCES AND SKILLS -- REGARDLESS OF THEIR RACE, COLOR, RELIGION, BACKGROUND, SEX OR EVEN HANDICAPS, IN MANY CASES.

IF YOU ARE INTERESTED IN KNOWING MORE ABOUT ENVIRONMENTAL JOBS AND CAREERS, SEE YOUR SCHOOL VOCATIONAL OR CAREER GUIDANCE DIRECTOR.

Your Pal,
Popeye

LET'S KEEP IT CLEAN FROM NOW ON, KIDS!